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**ASHTON WOODS.**

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA

CD 20-08

5-4-2023

**REVISIONS**

NO.	DATE

**PLAN INFORMATION**

PROJECT NO. AWH-20000  
FILENAME AWH20000 - SCM I  
CHECKED BY DCW  
DRAWN BY JKD  
SCALE AS SHOWN  
DATE 05.08.2023

**HEET**

**STORMWATER CONTROL**  
**MEASURE 'I' DETAILS**  
**C9.021**

FINAL DRAWING - RELEASED FOR CONSTRUCTION



# STORMWATER CONTROL MEASURE 'I' LANDSCAPE SPECIFICATIONS

## LEGEND

QTY.	SYM.	SCIENTIFIC NAME	COMMON NAME	HATCH	TYPE	SPACING
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### SHALLOW WATER

121	IV	IRIS VIRGINIANA	BLUE FLAG IRIS		4-INCH CONTAINER	24" O.C.
208	PC	PONTEDERIA CORDATA	PICKEREL WEED		4-INCH CONTAINER	24" O.C.
127	ST	SCHOENOPLECTUS TABERNAEMONTANI	SOFT-STEM BULRUSH		4-INCH CONTAINER	24" O.C.

### SHALLOW LAND

106	CS	CAREX SPP.	SEDGES		4-INCH CONTAINER	24" O.C.
91	CA	CRINUM AMERICANUM	AMERICAN CRINUM LILY		4-INCH CONTAINER	24" O.C.
111	HA	HIBISCUS ACULEATUS	PINELANDS MALLOW		4-INCH CONTAINER	24" O.C.

### SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND AQUATIC SHELF. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

### TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 - MAY 1	RYE (GRAIN)	120 LBS/AC
MAY 1 - AUG 15	KOBE LESPEDEZA	50 LBS/AC
AUG 15 - DEC 30	GERMAN MILLET	40 LBS/AC
	RYE (GRAIN)	120 LBS/AC

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

**NOTE:** USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

### PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE OPTIONS (CHOOSE ONE)	APPLICATION RATE
MAY 1 - AUG 31	CENTPEDE RAW	30 LBS/AC
APRIL 1 - SEPT 1	SUMMER MIX	200 LBS/AC
	(80% HULLED BERMUDA/20% MILLET)	
OCT 1 - MARCH 1	FALL MIX	200 LBS/AC
	(80% TALL FESCUE/20% ANNUAL RYEGRASS)	

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

**NOTE:** PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

### PLANTING INSTRUCTIONS

- PLANTING TECHNIQUES**
- ENSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
  - CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
  - PLACE PLANTS IN PIT ENSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
  - HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
  - NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
  - ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAVED ROOTS SHALL BE CUT OFF CLEANLY.
  - THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
  - SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
  - PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
  - BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAUNAGED TISSUE, LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

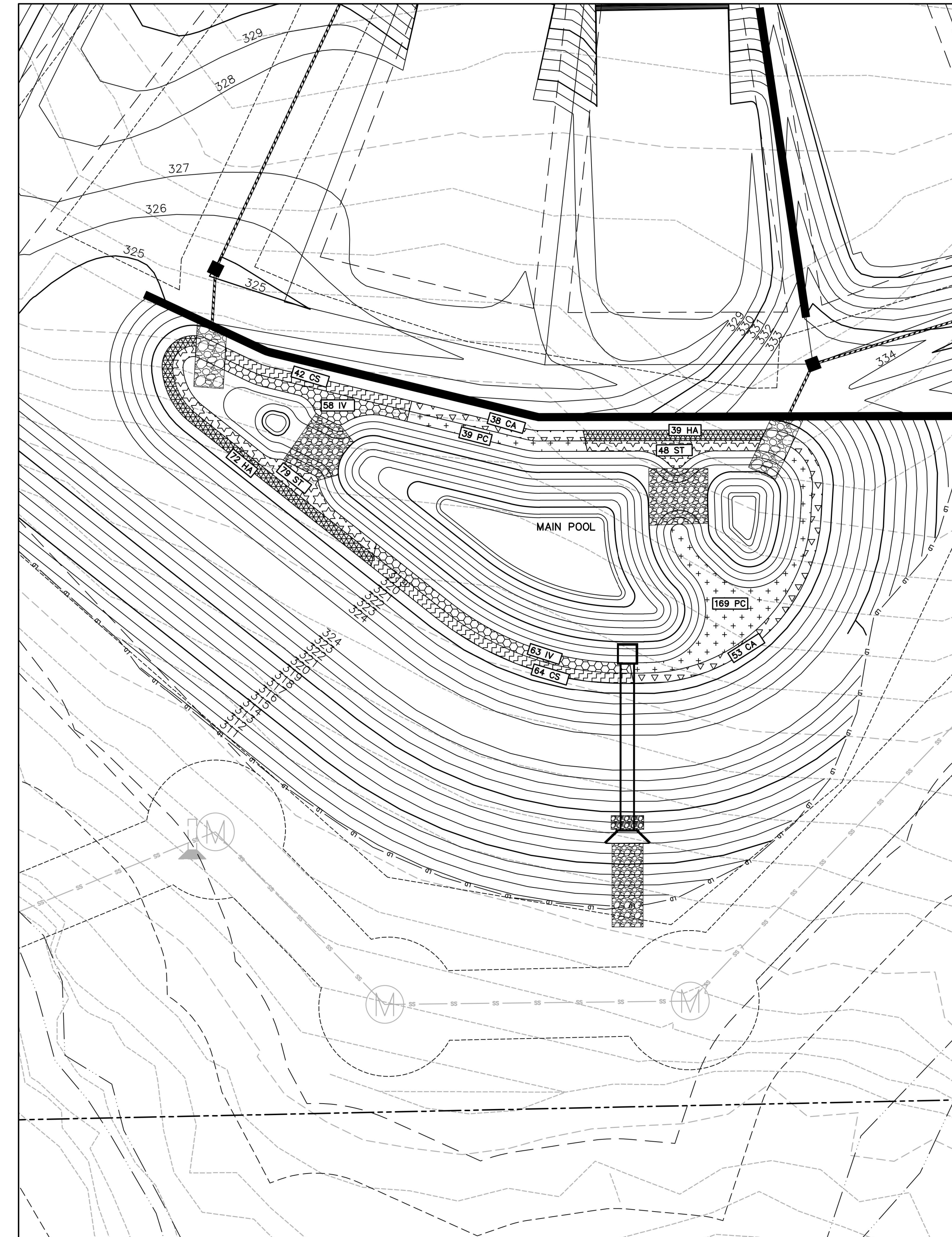
- CONTAINER STOCK / BARE ROOT**
- STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
  - CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
  - BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
  - IF BARE ROOT SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

- PLANT LOCATIONS**
- NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
  - NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

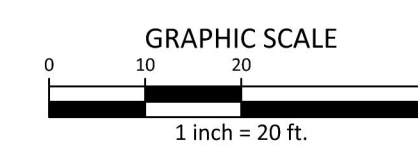
**WATER**  
WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.

### PLANTING SCHEDULE

- ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER MANAGEMENT FACILITY PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
- ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER MANAGEMENT FACILITY PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER MANAGEMENT FACILITY PLANTING PLAN.
- OPTIMAL PLANTING PERIODS RANGE APPROXIMATELY FROM APRIL 15TH THRU JUNE 30TH AND SEPTEMBER 1ST THRU OCTOBER 31ST. FOR FINAL DETERMINATION OF THE SITE'S PLANTING PERIOD, THE CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION.
- IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PREVENT WILDLIFE FROM DAMAGING OR CONSUMING WETLAND PLANTINGS.



STORMWATER CONTROL MEASURE 'I' PLAN VIEW  
1" = 20'



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NO.	DATE

**PLAN INFORMATION**

PROJECT NO.	AWH-20000
FILENAME	AWH20000 - SCM I
CHECKED BY	DCW
DRAWN BY	JKD
SCALE	1"=20'
DATE	05. 08. 2023

**STORMWATER CONTROL MEASURE 'I' LANDSCAPE PLANS**  
**C9.031**

I:\Projects\AWH\AWH-20000\04-Production\Water Resources\South Side\Current Drawings\SCM CD\AWH20000 - SCM I.dwg, 5/4/2023, 4:12:10 PM, Tommy Dubois



# STORMWATER CONTROL MEASURE 'J' CONSTRUCTION SPECIFICATIONS

## GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN ENGINEER'S ATTENTION IMMEDIATELY.
- THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
- ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER. HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
- DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW:
  - THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING FOR THE FACILITY. THE INTERIOR FINE GRADING WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
  - THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) SHALL BE CONNECTED TO THE PERMANENT 6" DIP DRAIN PIPE.
  - ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN. ALL SEDIMENT, TRASH, ETC. SHALL BE DISPOSED OF PROPERLY (I.E. - PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE WATER QUALITY COULD BE ADVERSELY AFFECTED.
  - ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
  - ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
  - ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN.
- ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A N.C.P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. McADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- ON-SITE GEOTECHNICAL ENGINEER TO DETERMINE IF IN-SITU SOILS ENCOUNTERED WOULD MAINTAIN A STORMWATER CONTROL MEASURE PERMANENT POOL AT DESIGN ELEVATION. IF HIGHLY PERMEABLE SOILS ARE ENCOUNTERED THAT WOULD NOT MAINTAIN THE PERMANENT POOL AT DESIGN ELEVATION, A CLAY LINER MAY BE REQUIRED TO MAINTAIN A PERMANENT POOL OF WATER IN THE STORMWATER CONTROL MEASURE. FINAL DETERMINATION IF A CLAY LINER IS NEEDED SHALL BE THE RESPONSIBILITY OF THE ON-SITE GEOTECHNICAL ENGINEER. UPON DETERMINATION OF HIGHLY PERMEABLE SOIL CONDITIONS, ON-SITE GEOTECHNICAL ENGINEER WILL INFORM THE DESIGN ENGINEER AND RECOMMEND LINER SPECIFICATIONS.
- IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G. - EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE STORMWATER CONTROL MEASURE, KEY TRENCH, ETC.). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE. DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).
- THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE EXISTING SOIL LAYER AFTER CONSTRUCTION / COMPACTION IS NOT DETERMINED SUITABLE BY A LANDSCAPE PROFESSIONAL FOR THE WET POND PLANTINGS, THEN THE CONTRACTOR SHALL AMEND THE PLANTING AREA OF THE WET POND AS DIRECTED BY A LANDSCAPE PROFESSIONAL.
- PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2" - 3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3" - 4" ON THE DAM EMBANKMENT AND AQUATIC SHELF. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED, AS DIRECTED BY A LANDSCAPE PROFESSIONAL, PRIOR TO INSTALLATION ON THE EMBANKMENT AND AQUATIC SHELF.
- THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON THE PROPOSED DAM EMBANKMENT (FILL AREAS).

## OUTLET STRUCTURE MATERIAL SPECIFICATIONS

- THE 36" Ø RCP OUTLET BARREL SHALL BE CLASS III RCP, MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE CONFINED O-RING RUBBER GASKET JOINTS MEETING ASTM C-443-LATEST. THE PIPE JOINTS SHALL BE TYPE R-4.
- THE STRUCTURAL DESIGN FOR THE 5' X 5' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE.
- THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.01J FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
- THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET C9.02J. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO 8,572 LBS. IN LIEU OF CAST-IN-PLACE, THE CONTRACTOR MAY OPT FOR A PRECAST ANTI-FLOTATION BLOCK. SHOP DRAWINGS FOR THE PRECAST BLOCK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE PRECAST ANTI-FLOTATION BLOCK SHALL HAVE A SHIPPING WEIGHT OF 25,925 LBS.
- THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM-C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERIGHT CONNECTION. THE CONTRACTOR SHALL PARGE JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINK GROUT AND INSTALL GALVANIZED STEEL STRAPS PER DETAIL ON SHEET C9.01J.
- PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED WITHIN THE TRASH RACK (SEE DETAIL FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. CONTRACTOR SHALL ALSO PROVIDE A CHAIN AND LOCK FOR SECURING THE ACCESS HATCH. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
- ALL POURED CONCRETE SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
  - MINIMUM 3000 PSI (28 DAY)
  - SUMP = 3" - 5"
  - ENTRAINED AIR = 5% - 7%

PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.

ON-SITE GEOTECHNICAL ENGINEER TO ENSURE AND CERTIFY ALL POURED CONCRETE MEETS THE ABOVE SPECIFICATIONS.

- GEOTEXTILE FABRIC FOR THE 36" Ø RCP OUTLET BARREL JOINTS SHALL BE MIRAFI 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN FABRIC).
- STORMWATER CONTROL MEASURE EMERGENCY DRAW DOWN IS VIA AN 6" Ø PLUG VALVE. THE VALVE SHALL BE A MSH STYLE 1820 ECCENTRIC VALVE OR APPROVED EQUAL. THIS VALVE IS IN ACCORDANCE WITH AWWA C-517, AND SHALL BE OPERABLE FROM TOP OF OUTLET STRUCTURE VIA A HAND WHEEL (SEE DETAIL SHEET C9.01J). THE CONTRACTOR SHALL PROVIDE A REMOVABLE VALVE WRENCH WITH A HAND WHEEL ON TOP FOR OPERATION OF THE 6" Ø PLUG VALVE.

## CONSTRUCTION SEQUENCE

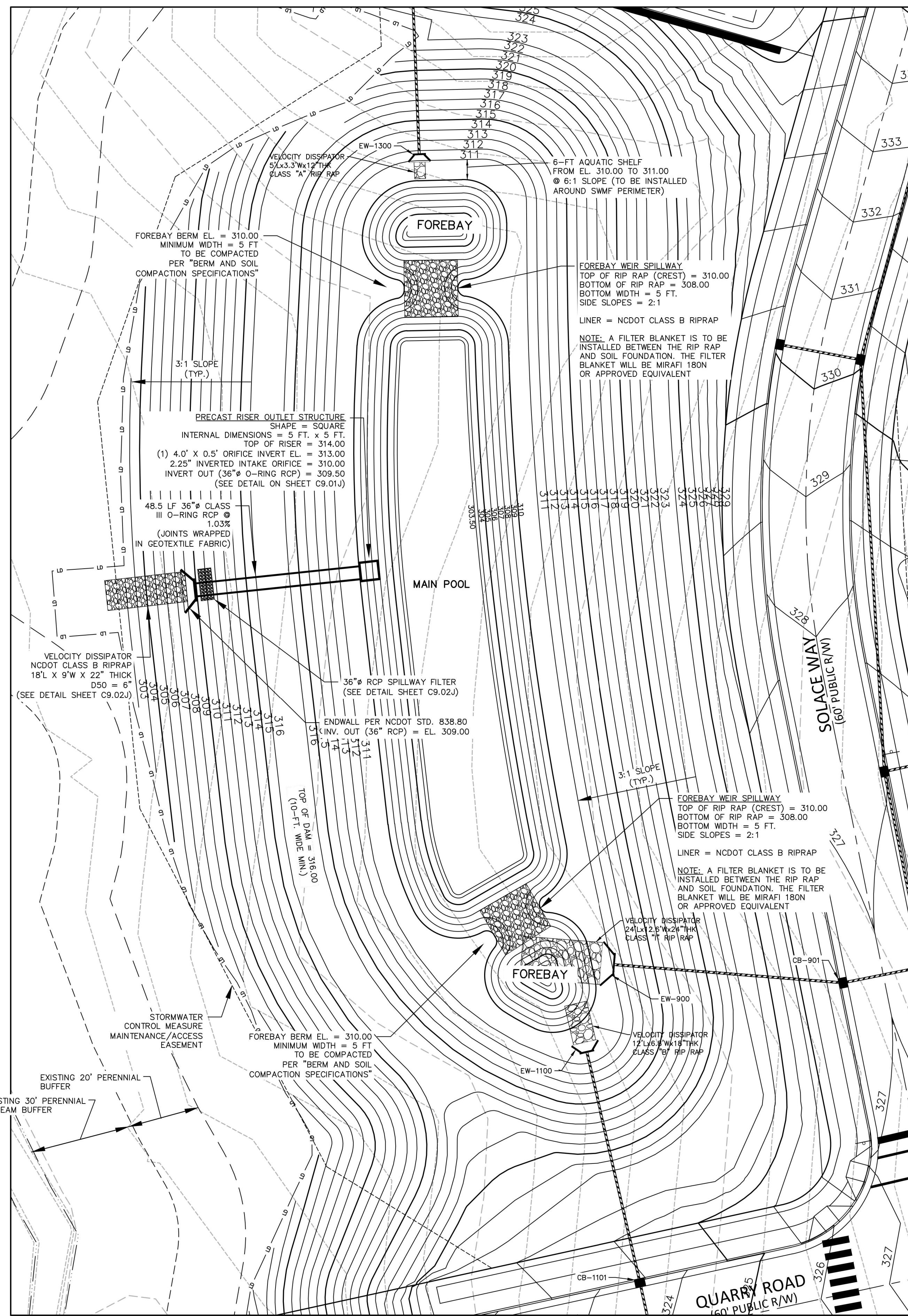
- PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF ROLESVILLE AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS)
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING.
- CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY RESIDUAL SOILS TO BE LEFT IN PLACE MUST BE WELL SCARIFIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
- EXCAVATE FOR THE NEW KEY TRENCH ALONG THE CENTERLINE OF THE PROPOSED DAM EMBANKMENT. THE TRENCH SHALL EXTEND A MINIMUM OF 3 FT BELOW EXISTING GRADE OR 2 FT BELOW THE 36" RCP OUTLET BARREL AND SHALL HAVE A MINIMUM BOTTOM WIDTH OF 5 FEET. THE KEY TRENCH SIDESLOPES SHALL BE A MINIMUM OF 1:1 (H:V). WHEN EXCAVATING THE KEY TRENCH, IF ANY DEBRIS IS ENCOUNTERED TO AN EXTENT THAT SUCH DEBRIS MAY EXIST IN OTHER INSITU PORTIONS OF THE DAM EMBANKMENT, IT SHOULD ALSO BE REMOVED. THE KEY TRENCH SHALL BE COMPACTED TO THE SAME SPECIFICATION LISTED IN ITEM 4 OF THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS". DEPENDING UPON ON-SITE SOIL CONDITIONS ENCOUNTERED DURING EXCAVATION, THE ON-SITE GEOTECHNICAL ENGINEER MAY VARY THE DEPTH AND DIMENSIONS OF THE KEY TRENCH AS DEEMED NECESSARY. THE ON-SITE GEOTECHNICAL ENGINEER SHALL RETAIN DOCUMENTATION OF ANY VARIATION FOR FUTURE AS-BUILT SUBMITTALS TO THE TOWN OF ROLESVILLE.
- BEGIN PLACEMENT OF BACKFILL WITHIN THE KEY TRENCH. THE KEY TRENCH SHALL BE COMPACTED TO THE SPECIFICATIONS LISTED IN ITEM 4 OF THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS". THE KEY TRENCH SHALL BE TESTED PER THE SPECIFICATIONS LISTED IN THAT SECTION.
- PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, LEAN CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- IN ORDER TO HELP PROTECT THE SOIL SUBGRADE FROM DETERIORATION (DUE TO EXPOSURE, RAINFALL, SEEPAGE, AND RUNOFF) BEFORE THE CRADLE CAN BE POURED, IT IS STRONGLY RECOMMENDED THAT A 3" TO 4" THICK CONCRETE MUD MAT BE POURED OVER THE SUBGRADE ONCE IT IS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE MUD MAT WILL ALSO PROVIDE BEARING FOR THE BLOCKS THAT TEMPORARILY SUPPORT THE PIPE UNTIL THE CRADLE CAN BE POURED. THE METHOD OF BLOCK SUPPORT FOR THE PIPE PROPOSED BY THE CONTRACTOR SHOULD BE SUBMITTED TO THE JOHN R. McADAMS COMPANY FOR REVIEW.
- BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 6" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
- AS CONSTRUCTION OF THE EMBANKMENT MOVES FORWARD, IT WILL BE NECESSARY TO INSTALL THE CONCRETE CRADLE. SEE NOTE ON CRADLE DETAIL (SHEET C9.02J). THIS MAY BE CONSTRUCTED USING ONE OF THE FOLLOWING METHODS:
  - IF THE PROPOSED STRUCTURAL FILL MATERIAL IS UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE, THEN THE STRUCTURAL FILL SHOULD BE INSTALLED AND COMPACTED UP TO THE TOP OF CONCRETE CRADLE ELEVATION, ONCE THE STRUCTURAL FILL REACHES THE NEXT DOWNSTREAM JUNCTION BOX OR HEADWALL AND IS COMPACTED TO THE ELEVATION OF THE TOP OF THE CONCRETE CRADLE. EXCAVATE THE CONCRETE CRADLE TRENCH PER THE PROVIDED DETAILS AND CONSTRUCT THE CONCRETE CRADLE AS PER THE PROVIDED CONCRETE CRADLE DETAIL.
  - IF THE PROPOSED STRUCTURAL FILL IS NOT UTILIZED AS THE FORMWORK FOR THE CONCRETE CRADLE, THEN PRIOR TO CONSTRUCTING THE STRUCTURAL FILL EMBANKMENT, THE FORMWORK FOR THE CONCRETE CRADLE SHOULD BE INSTALLED ON EXISTING GROUND AND/OR THE MUD MAT. THE CONCRETE CRADLE SHALL BE CONSTRUCTED PER THE PROVIDED DETAILS.
- AS AN ALTERNATE TO A CONCRETE CRADLE UNDER THE BARREL PIPE (SEE SHEET C9.02J), THE CONTRACTOR MAY CHOOSE TO ELIMINATE THE CONCRETE CRADLE AND USE COMPACTED BACKFILL IF THE ON-SITE GEOTECHNICAL ENGINEER WILL PROVIDE A N.C.P.E SEALED LETTER CERTIFYING THAT THE COMPACTION UNDER, AROUND, AND ABOVE THE BARREL MEETS THE SPECIFICATIONS OF THE EMBANKMENT COMPACTION REQUIREMENTS AND MOISTURE CONTENT. THIS CERTIFICATION LETTER MUST BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO BACKFILL. THIS SEPARATE CERTIFICATION MUST BE SPECIFIC TO THE FACILITY, AND MUST CLEARLY STATE THAT ALL SOIL MATERIAL UNDER, AROUND, AND ABOVE THE BARREL PIPE MEETS THE BERM AND SOIL COMPACTION SPECIFICATIONS ON THIS SHEET. THIS CERTIFICATION IS TO INCLUDE REFERENCE TO BOTH MATERIAL AND COMPACTION, AND MUST STATE THAT ALL MATERIALS UNDER, AROUND, AND ABOVE THE BARREL HAVE BEEN COMPACTED PER THE BERM MATERIAL SPECIFICATIONS AT LEAST 95% OF MAXIMUM DRY DENSITY USING ASTM D698 STANDARD PROCTOR) WITH NO VOID SPACES PRESENT. THE CONTRACTORS INTENT TO UTILIZE THIS ALTERNATIVE MUST BE STATED PRIOR TO CONSTRUCTION TAKING PLACE. THIS CONTRACTORS CERTIFICATION MUST BE PRESENTED TO THE DESIGN ENGINEER BEFORE AN AS-BUILT CERTIFICATION CAN BE ISSUED FOR THIS FACILITY.
- INSTALL RISER / BARREL ASSEMBLY, ALONG WITH THE EMERGENCY DRAIN SYSTEM. INSTALL 36" RCP OUTLET BARREL SPILLWAY FILTER FROM THE DETAILS SHOWN ON SHEET C9.02J.
- CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS" AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN "BERM AND SOIL COMPACTION SPECIFICATIONS", INCLUDING COMPACTION AND MOISTURE REQUIREMENTS. IF NECESSARY TO ACHIEVE PROPER COMPACTION, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS".
- UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.03J.
- SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

## BERM AND SOIL COMPACTION SPECIFICATIONS

- PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED DURING CONSTRUCTION.
- ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
- FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 6" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT.
- ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED. THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
- THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION, BY THE ON-SITE GEOTECHNICAL ENGINEER, THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING WILL BE REQUIRED ALONG THE 36" Ø RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

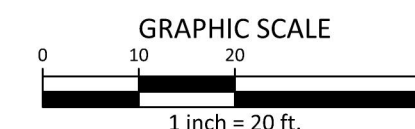
## STATEMENT OF RESPONSIBILITY

- ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THE STORMWATER CONTROL MEASURE SHALL BE THE RESPONSIBILITY OF THE OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.



STORMWATER CONTROL MEASURE 'J' PLAN VIEW

1" = 20'



FINAL DRAWING - RELEASED FOR CONSTRUCTION



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## CLIENT

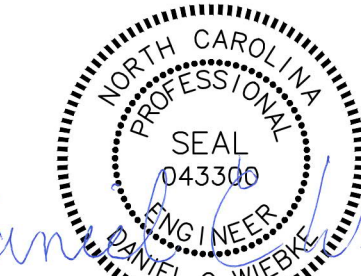
ASHTON RALEIGH RESIDENTIAL, LLC.  
900 RIDGEFIELD DRIVE, SUITE 335  
RALEIGH, NORTH CAROLINA 27609  
PHONE: 919. 422. 7663  
CONTACT: BOB MISHLER



ASHTON WOODS.

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA

CD 20-08



5-4-2023

## REVISIONS

NO. DATE

## PLAN INFORMATION

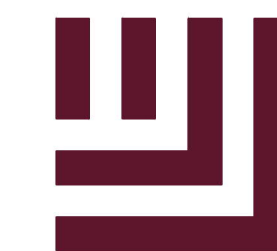
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FILENAME AWH20000 - SCM J  
CHECKED BY DCW  
DRAWN BY JKD  
SCALE 1"=20'  
DATE 05. 08. 2023

## SHEET

STORMWATER CONTROL MEASURE 'J' PLAN VIEW

**C9.00J**





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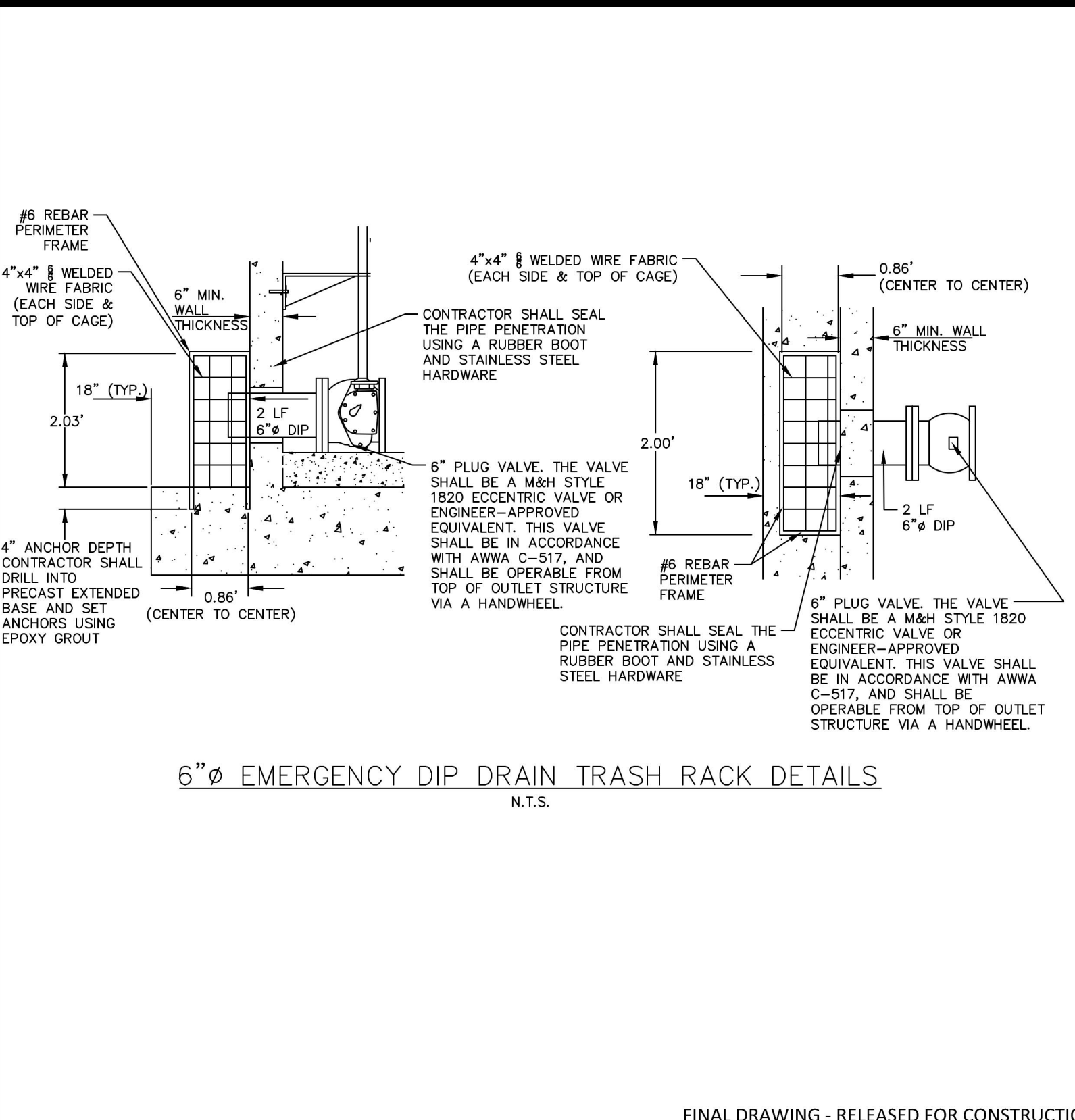
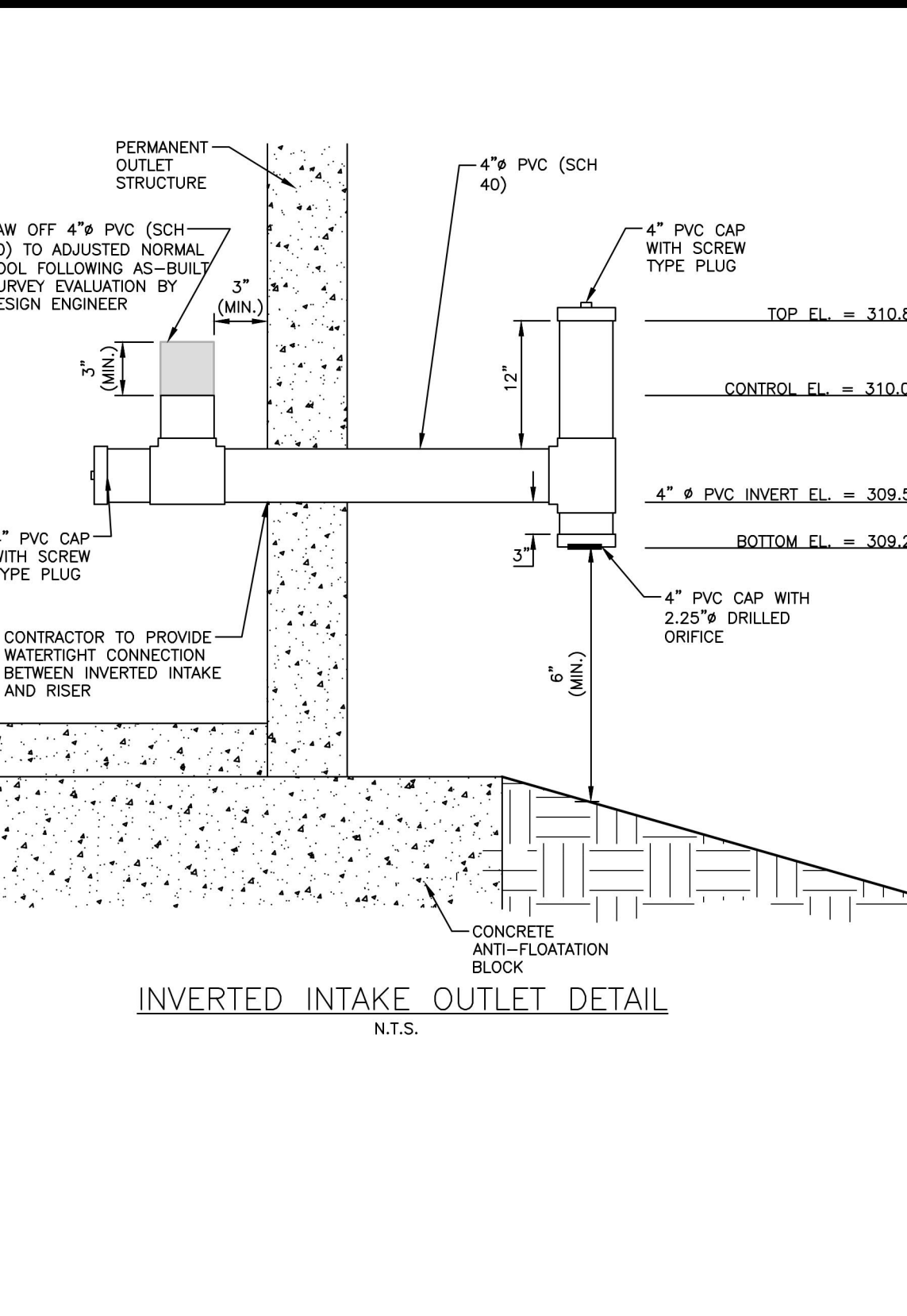
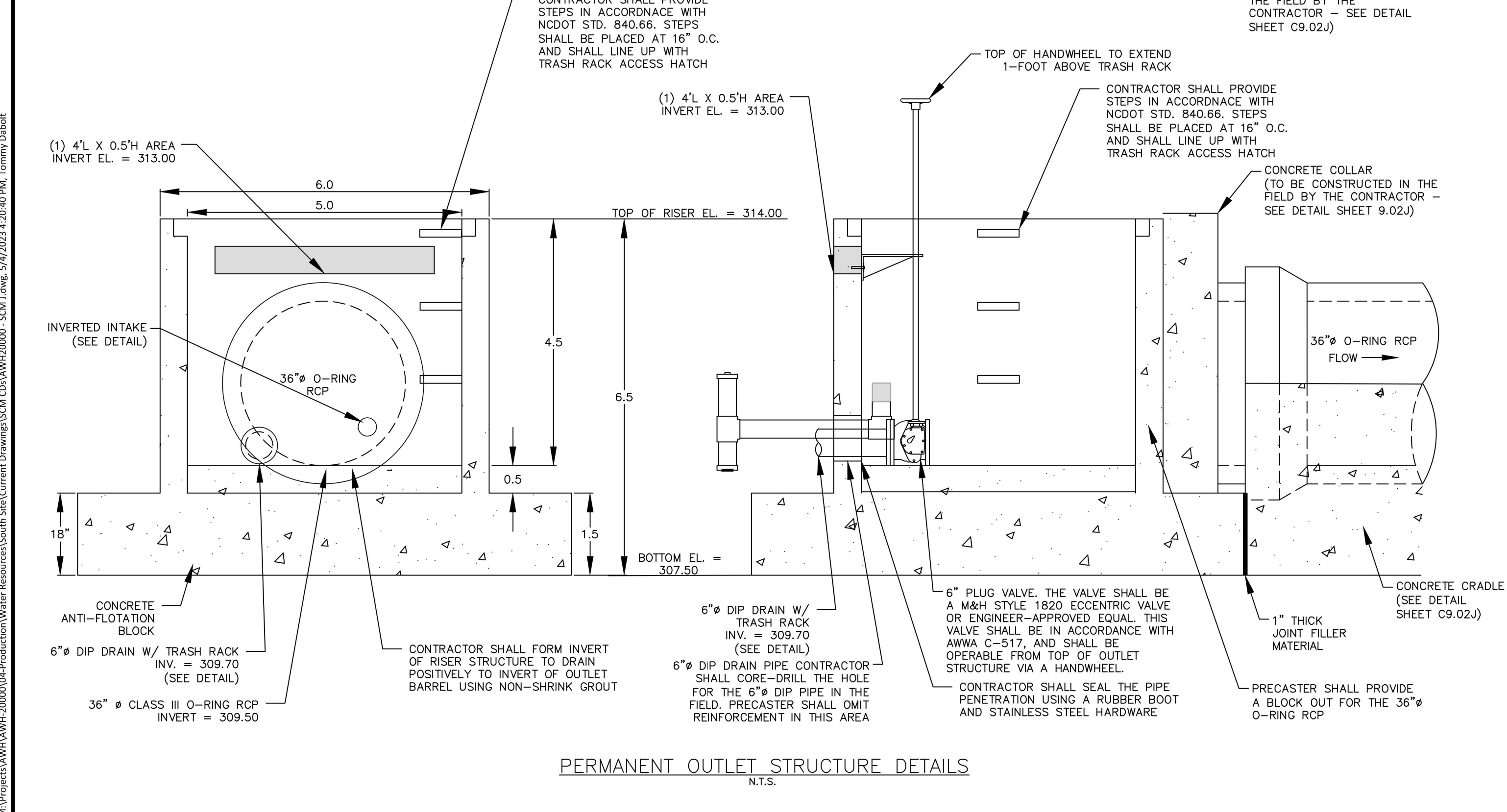
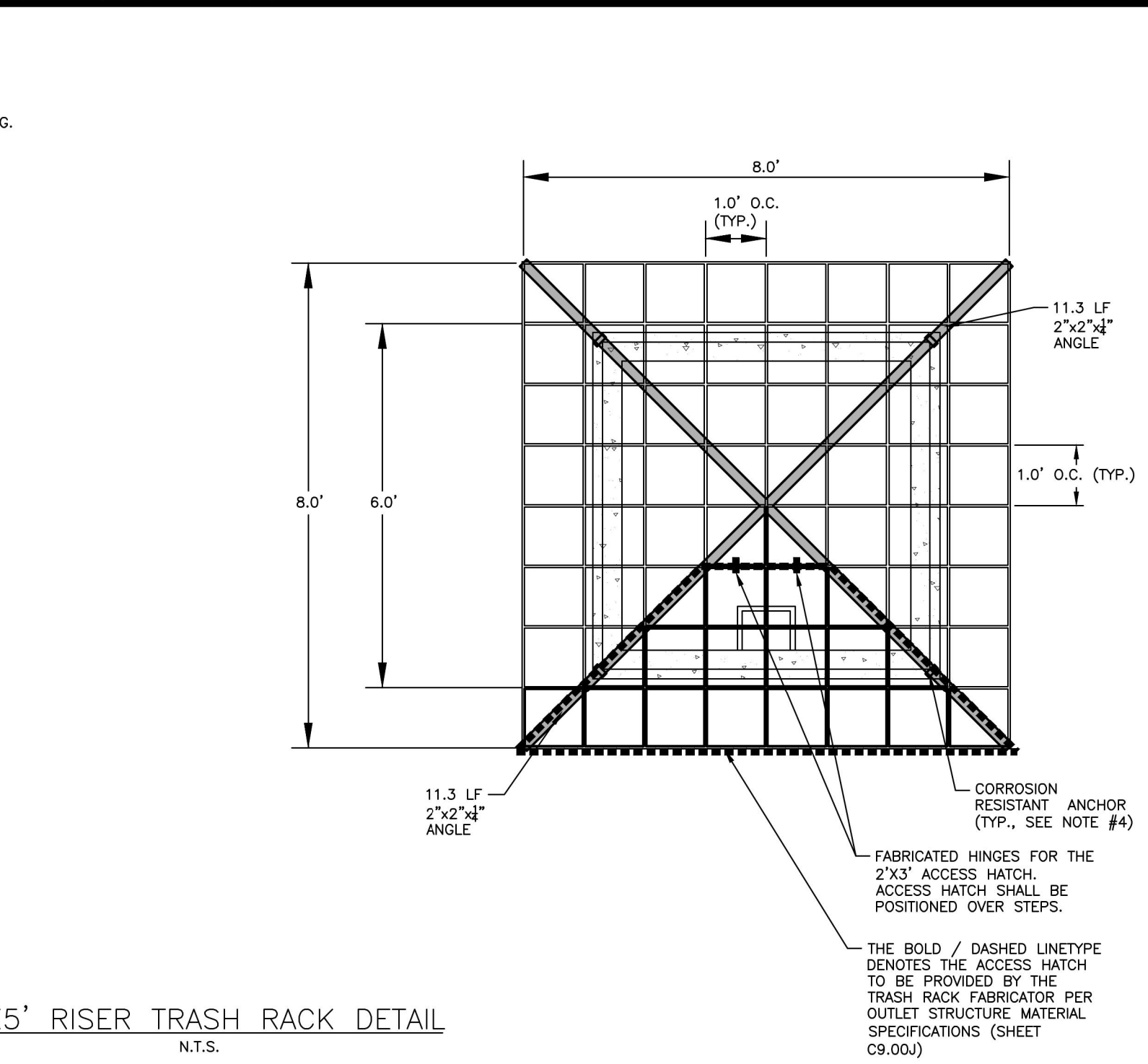
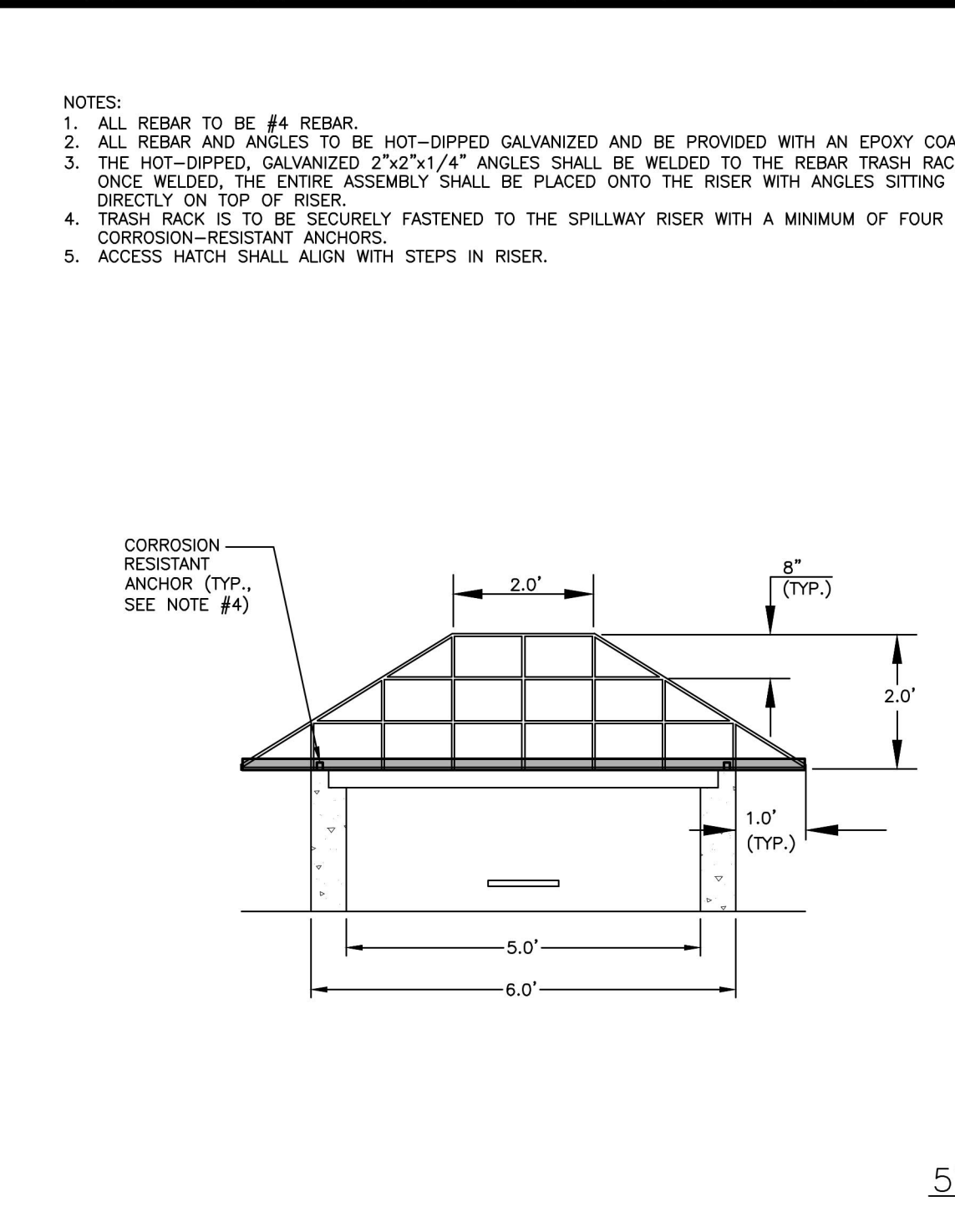
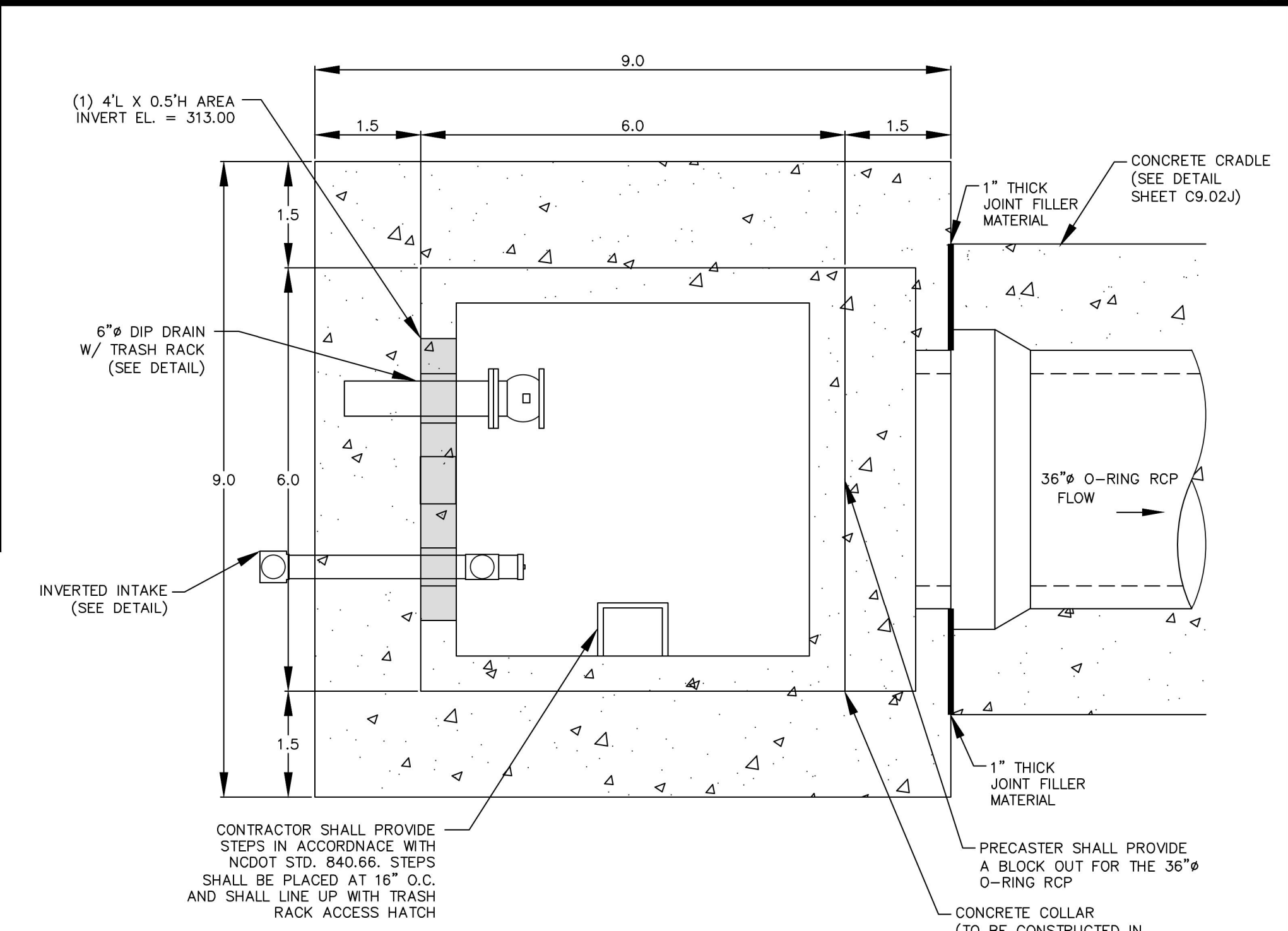
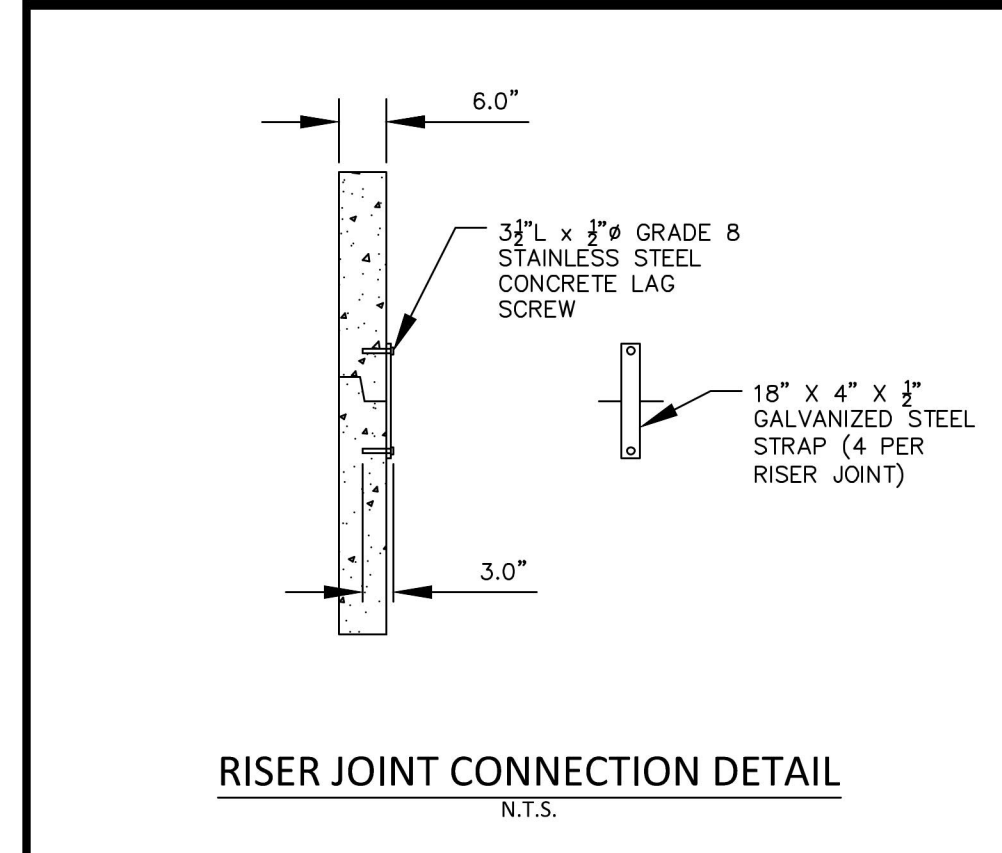
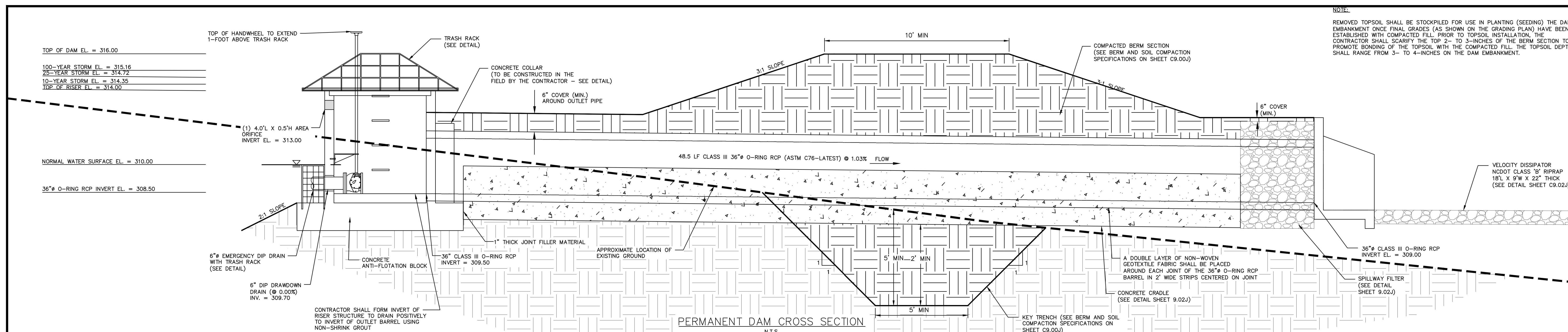
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**THE POINT**  
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EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA

CD 20-08



REVISIONS

NO. DATE

PLAN INFORMATION

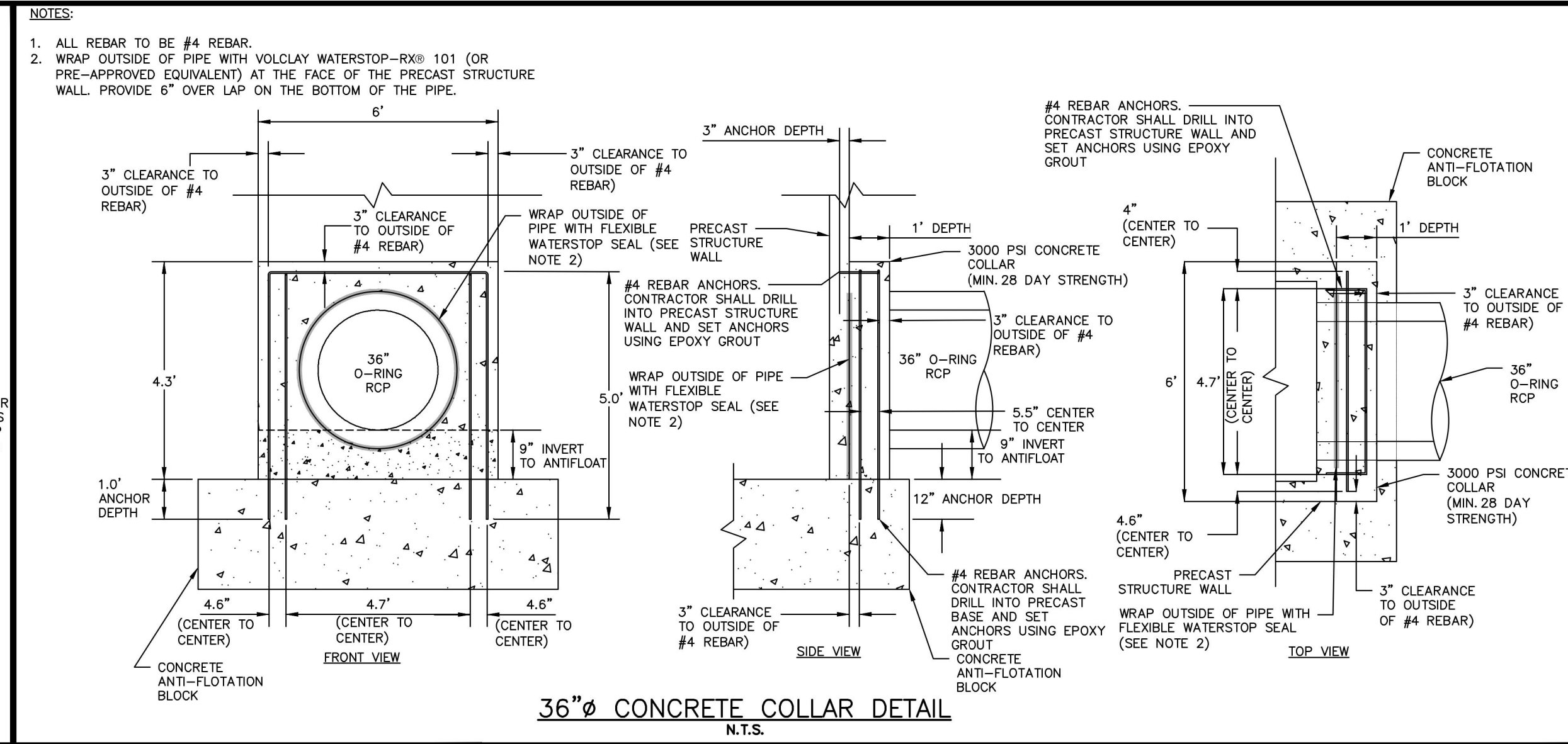
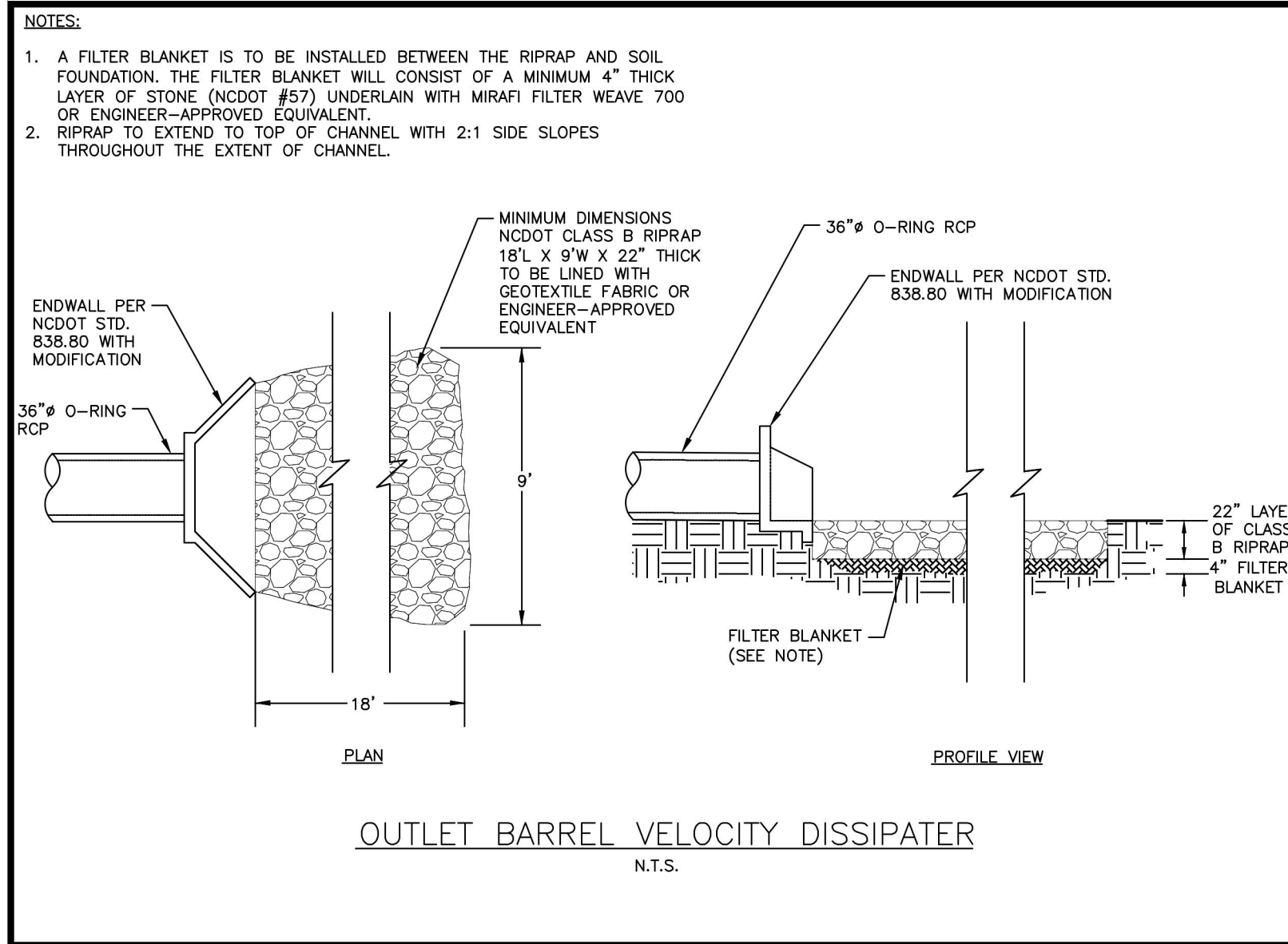
PROJECT NO. AWH-20000  
FILENAME AWH20000 - SCM J  
CHECKED BY DCW  
DRAWN BY JKD  
SCALE AS SHOWN  
DATE 05.08.2023

SHEET

STORMWATER CONTROL  
MEASURE 'J' DETAILS

**C9.01J**





**NOTES:**

- THIS PRECAST ENDWALL MAY BE USED FOR THE FOLLOWING STANDARDS: 838.21, 838.11, 838.21, 838.27, 838.33, 838.39, 838.41, 838.57, 838.63 AND 838.79.
- INSTALL PRECAST ENDWALLS WITH REINFORCING AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 838.
- USE 4000 PSI CONCRETE.
- PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185 WITH 7" MIN. CLEARANCE.
- PLACE LEFT HOLES OR PINS IN ACCORDANCE WITH 50% STANDARD TOLERANCE CLEARANCE.
- PIPE TO BE SHROUDED INTO HEADWALL AT JOB SITE BY CONTRACTOR.
- ALL ELEMENTS PRECAST TO MEET ASTM C913.
- WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- CHAMFER ALL CORNERS 1" OR HAVE A RADIUS OF 1".

NOTE: THE MINIMUM BAR SIZE SHALL BE #5 BARS AT 6" CTS. THE CONTRACTOR WILL HAVE THE OPTION TO INCREASE THEIR BAR SIZE, AS NEEDED.

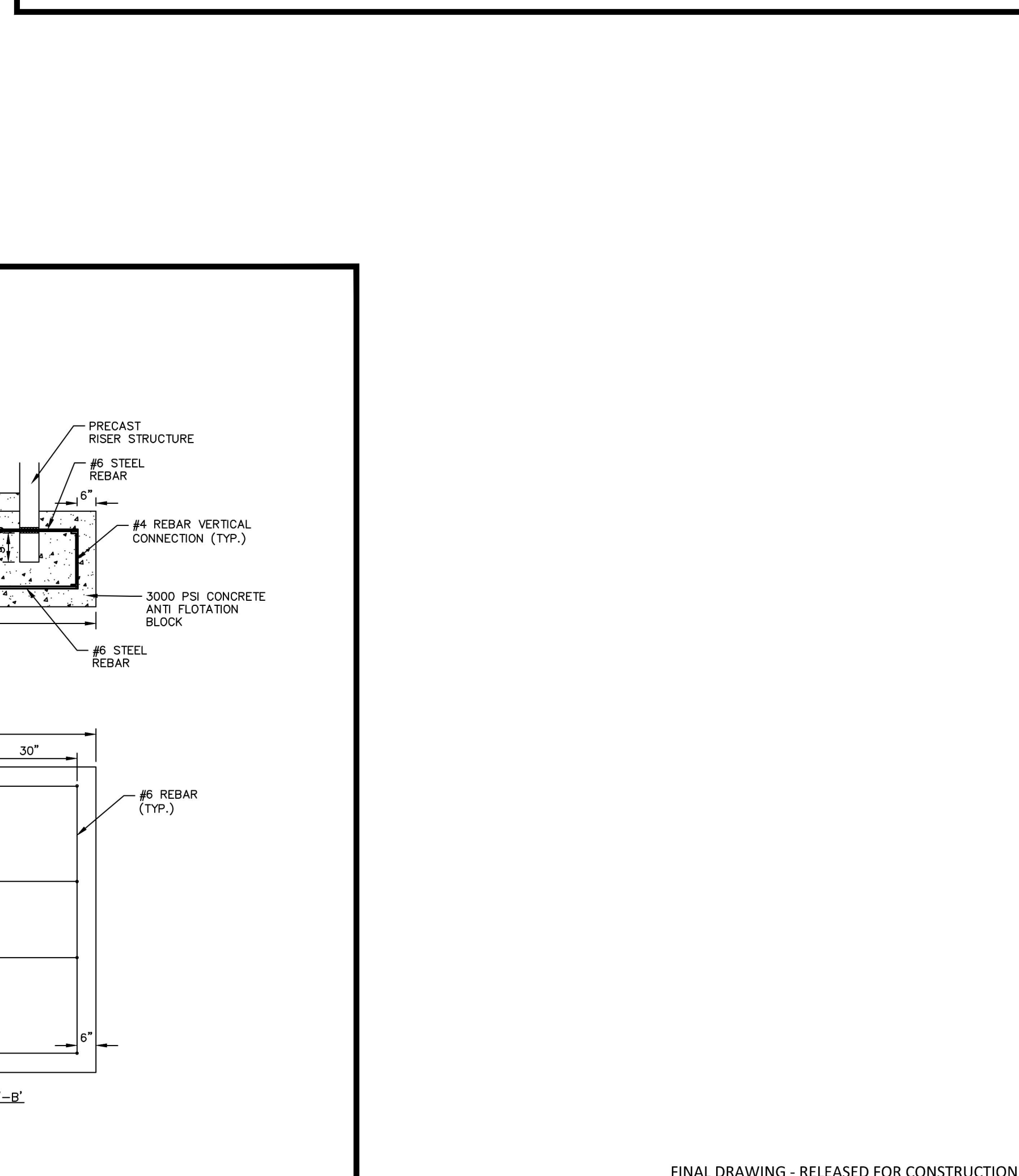
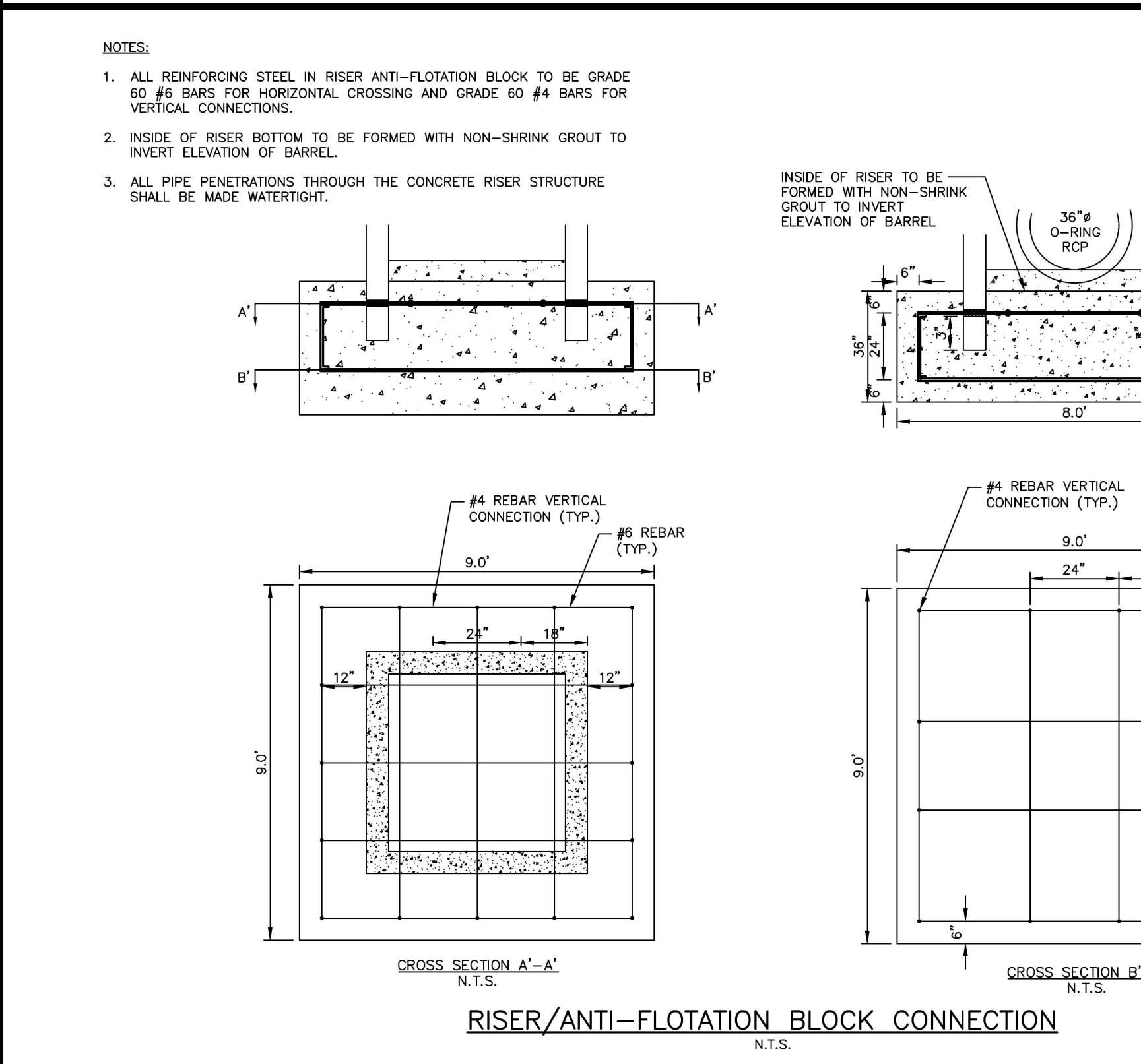
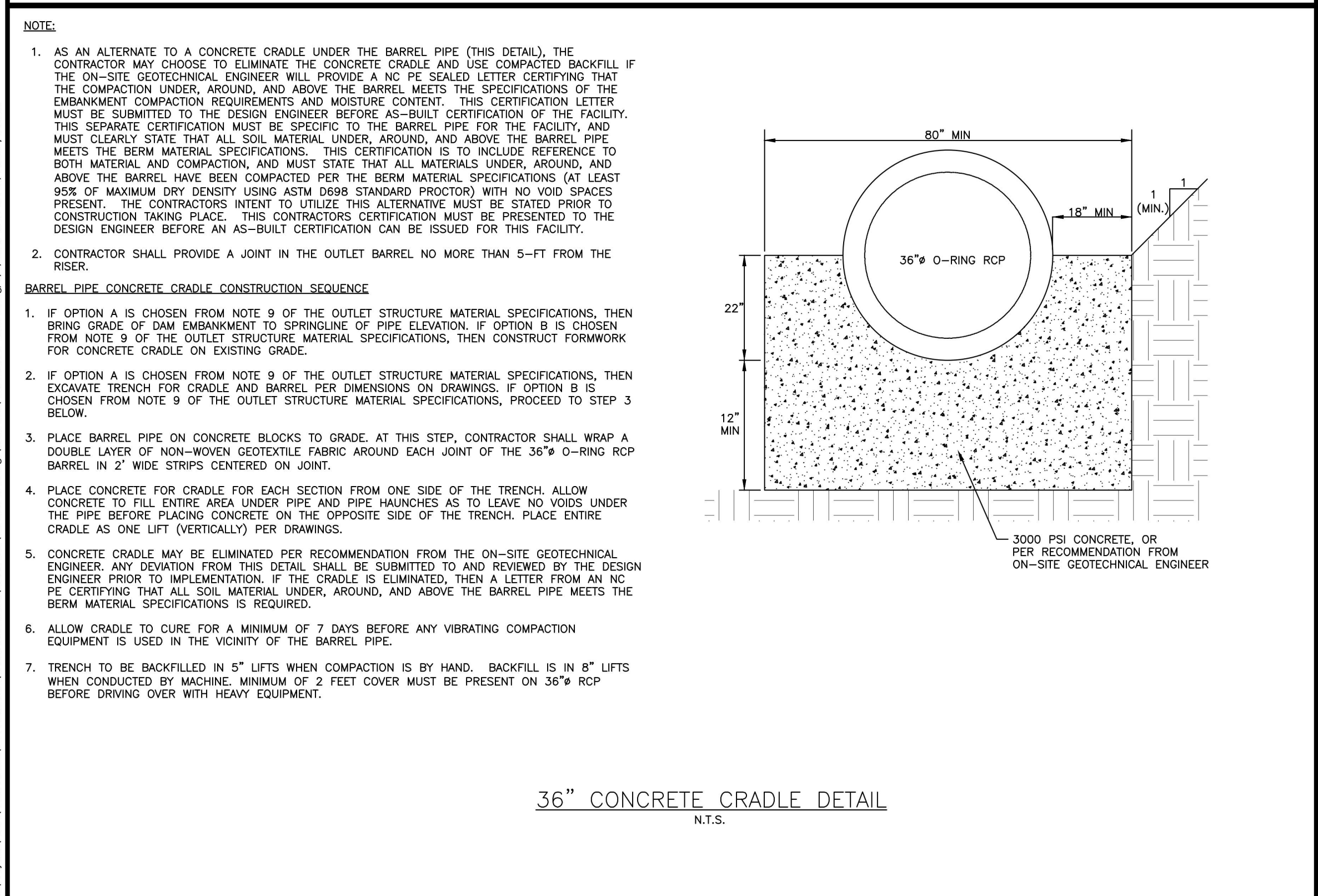
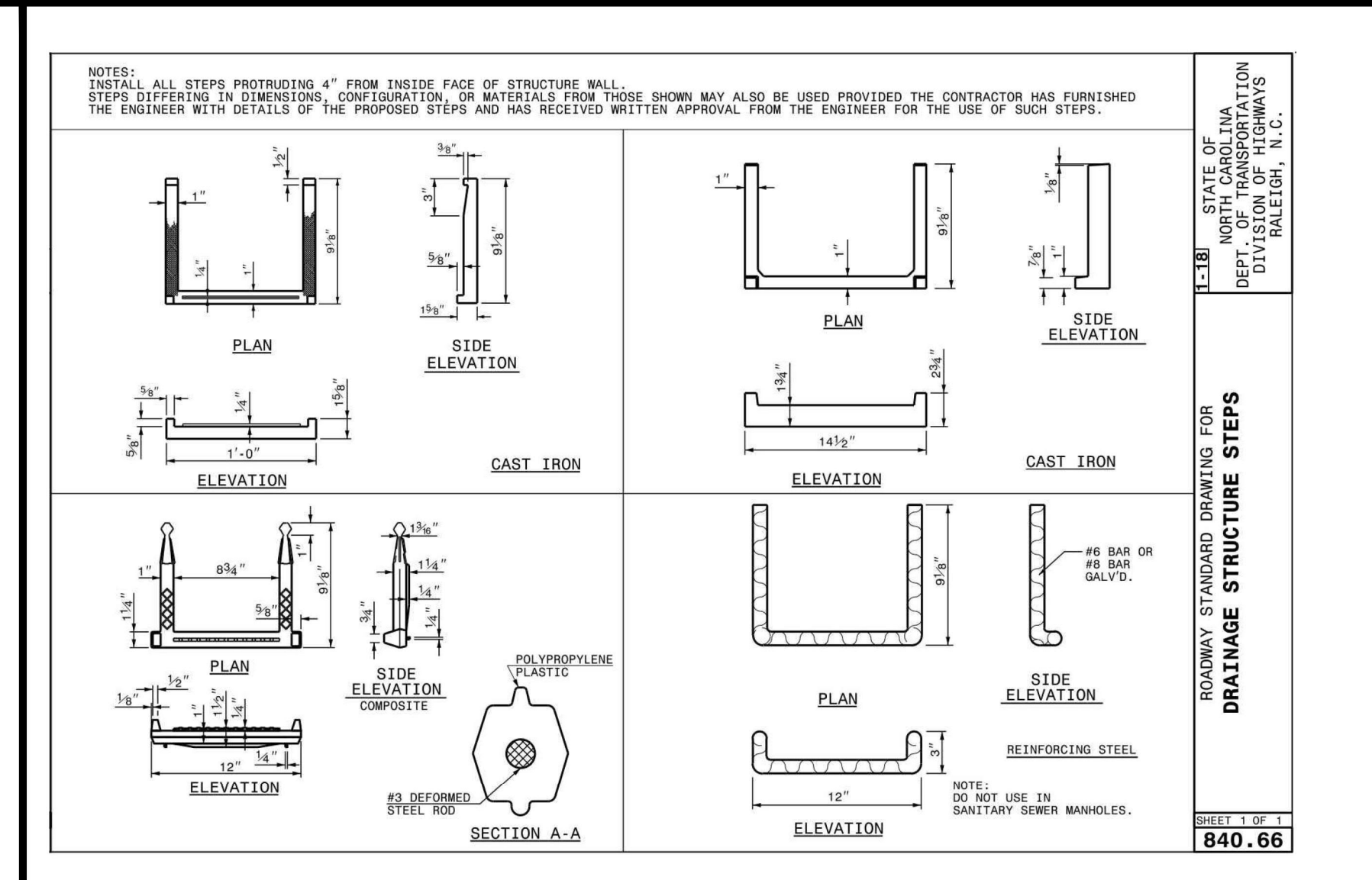
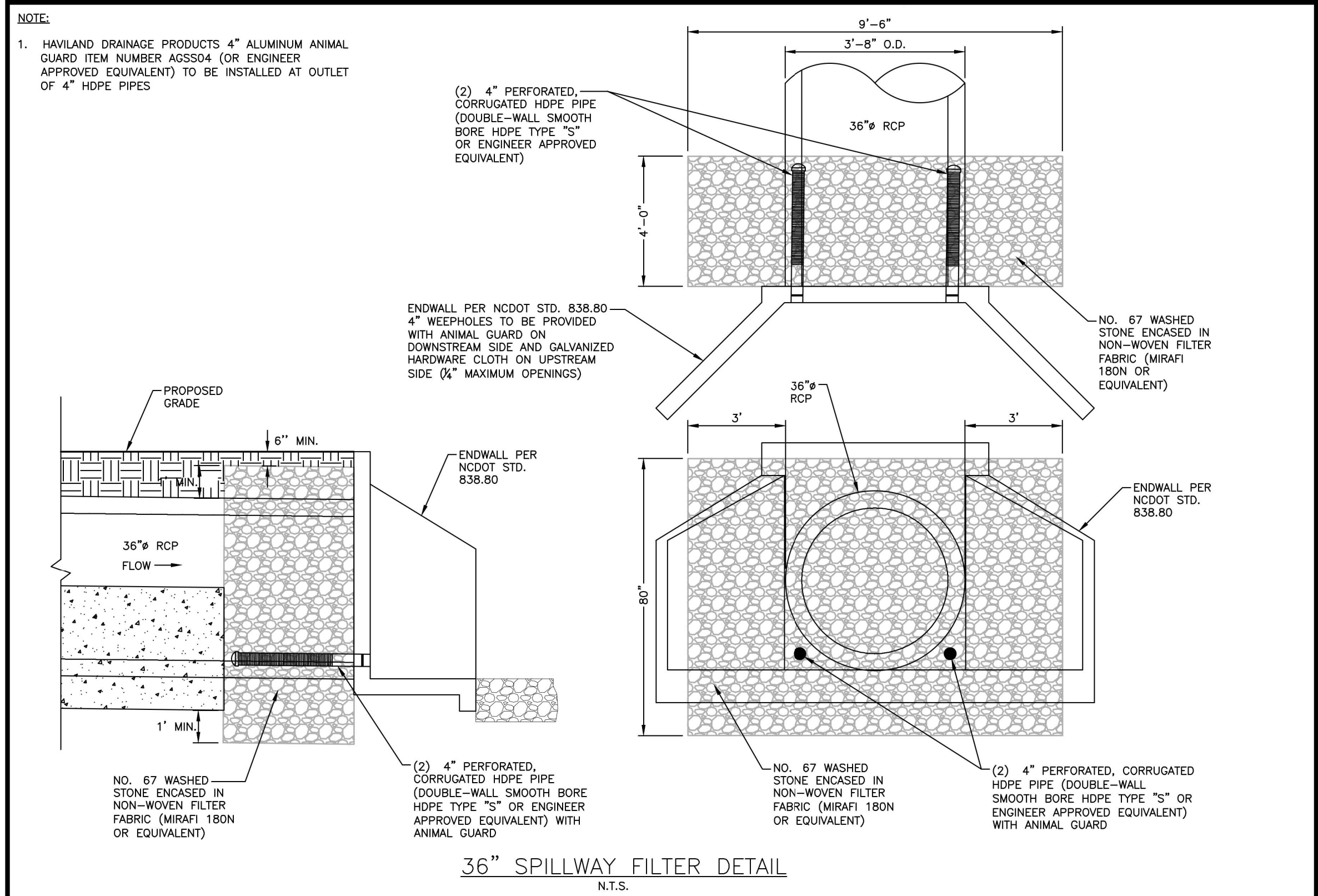
ENDWALL DIMENSIONS		MIN. MAX.		MIN. MAX.		MIN. MAX.	
PIPE DIA.	BAR SIZE	H1 (FT.)	H2 (FT.)	H3 (FT.)	W1	W2	W3
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/3.75	1.50/2.00	3.50/3.75	6.50/6.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.00	4.00/4.75	1.75/2.00	4.00/4.25	7.50/8.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/8.25	13.50/15.75	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/8.25	13.75/15.75	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/8.25	14.00/15.75	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/8.25	14.75/15.75	14.75/15.75

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N. C.

DESIGN STANDARD DRAWINGS FOR PRECAST CONCRETE ENDWALL FOR SINGLE ENDWALL OF PIPE 36" Ø

SCALE: 1/8" = 1'-0"

SHEET NO. 838.80



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**THE POINT**  
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WAKE COUNTY, NORTH CAROLINA

CD 20-08

5-4-2023

**REVISIONS**

NO.	DATE

**PLAN INFORMATION**

PROJECT NO. AWH-20000  
FILENAME AWH20000 - SCM J  
CHECKED BY DCW  
DRAWN BY JKD  
SCALE AS SHOWN  
DATE 05.08.2023

**SHEET**  
**STORMWATER CONTROL**  
**MEASURE 'J' DETAILS**  
**C9.02J**

FINAL DRAWING - RELEASED FOR CONSTRUCTION



# STORMWATER CONTROL MEASURE 'J' LANDSCAPE SPECIFICATIONS

## LEGEND

QTY.	SYM.	SCIENTIFIC NAME	COMMON NAME	HATCH	TYPE	SPACING
------	------	-----------------	-------------	-------	------	---------

### SHALLOW WATER

176	IV	IRIS VIRGINIANA	BLUE FLAG IRIS		4-INCH CONTAINER	24" O.C.
208	PC	PONTEREDIA CORDATA	PICKEREL WEED		4-INCH CONTAINER	24" O.C.
192	ST	SCHOENOPLECTUS TABERNAEMONTANI	SOFT-STEM BULRUSH		4-INCH CONTAINER	24" O.C.

### SHALLOW LAND

129	CS	CAREX SPP.	SEDGES		4-INCH CONTAINER	24" O.C.
121	CA	CRINUM AMERICANUM	AMERICAN CRINUM LILY		4-INCH CONTAINER	24" O.C.
194	HA	HIBISCUS ACULEATUS	PINELANDS MALLOW		4-INCH CONTAINER	24" O.C.

### SEEDBED PREPARATION

- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3-4 INCHES DEEP OVER ADVERSE SOIL CONDITIONS. TOPSOIL SHOULD BE INCORPORATED INTO THE FINAL GRADING OF THE BASIN SIDE SLOPES AND AQUATIC SHELF. CONTRACTOR SHOULD SCARIFY THE TOP 3-4 INCHES OF THE COMPACTED FILL TO PROMOTE BONDING WITH TOPSOIL.
- RIP THE ENTIRE AREA TO 6 INCHES DEPTH.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- PER ONE TIME ONLY, APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. AFTER PERMANENT COVER IS ESTABLISHED.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT.

### TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RATE
JAN 1 - MAY 1	RYE (GRAIN)	120 LBS/AC
MAY 1 - AUG 15	KOBE LESPEDEZA	50 LBS/AC
AUG 15 - DEC 30	GERMAN MILLET RYE (GRAIN)	40 LBS/AC 120 LBS/AC

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

**NOTE:** USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

### PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE OPTIONS (CHOOSE ONE)	APPLICATION RATE
MAY 1 - AUG 31	CENTPEDE RAW	30 LBS/AC
APRIL 1 - SEPT 1	SUMMER MIX	200 LBS/AC
OCT 1 - MARCH 1	(80% HULLED BERMUUDA/20% MILLET) FALL MIX (80% TALL FESCUE/20% ANNUAL RYEGRASS)	200 LBS/AC

**SOIL AMENDMENTS**  
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

**MULCH**  
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

**MAINTENANCE**  
INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

**NOTE:** PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM.

### PLANTING INSTRUCTIONS

#### PLANTING TECHNIQUES

- ENSURE THAT ROOTS, ONCE REMOVED FROM POT, ARE STRAIGHTENED AND FACE DOWNWARD.
- CREATE PLANTING AREA FOR EACH PLANT AND EXCAVATE PIT.
- PLACE PLANTS IN PIT ENSURING ROOTS ARE FACING COMPLETELY DOWNWARD.
- HEEL IN SOIL AROUND PLANT AND PROCEED TO NEXT PLANTING LOCATION.
- NEWLY PLANTED PLANTS NEED TO BE FASTENED TO THE SUBSTRATE FOR THE ESTABLISHMENT OF NEW ROOTS.
- ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY.
- THE DIAMETER OF THE PITS FOR ALL VEGETATIVE STOCK SHALL BE AT LEAST THREE TIMES THE DIAMETER OF THE ROOT MASS. PLANT PIT WALL SHALL BE SCARIFIED PRIOR TO PLANT INSTALLATION.
- SET THE PLANTS UPRIGHT, IN THE CENTER OF THE PIT. THE BOTTOM OF THE ROOT MASS SHOULD BE RESTING ON UNDISTURBED SOIL.
- PLACE THE BACKFILL AROUND THE BASE AND SIDES OF THE ROOT MASS, AND WORK EACH LAYER TO SETTLE BACKFILL AND TO ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF THE BACKFILL. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
- BROKEN OR DAMAGED PARTS WILL BE CUT BACK TO UNDAUNTED TISSUE. LEAVING AS MUCH GREEN BASAL TISSUE AS POSSIBLE ABOVE THE ROOTS. IF MORE THAN FIFTY PERCENT (50%) OF THE PLANT IS DAMAGED THEN CONTRACTOR SHALL REPLACE THE PLANT.

#### CONTAINER STOCK / BARE ROOT

- STOCK SHALL HAVE BEEN GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER ONCE REMOVED FROM THE CONTAINER.
- CONTAINER PLANTS WILL NEED TO BE WATERED REGULARLY AND PLACED IN SHADY CONDITIONS UNTIL PLANTING OCCURS.
- BARE ROOT PLANTS ARE FOR IMMEDIATE PLANTING, OTHERWISE SEE D) BELOW.
- IF BARE ROOTS SPECIMENS ARE NOT TO BE PLANTED WITHIN FOUR (4) DAYS, TEMPORARY HOLDING OF BARE ROOT SPECIMENS ARE TO BE COVERED ENTIRELY BY A SUITABLE MEDIUM (ETC. SOIL, SAWDUST, MULCH OR THE LIKE) AND WATERED REGULARLY SO AS TO NOT DRY OUT.

#### PLANT LOCATIONS

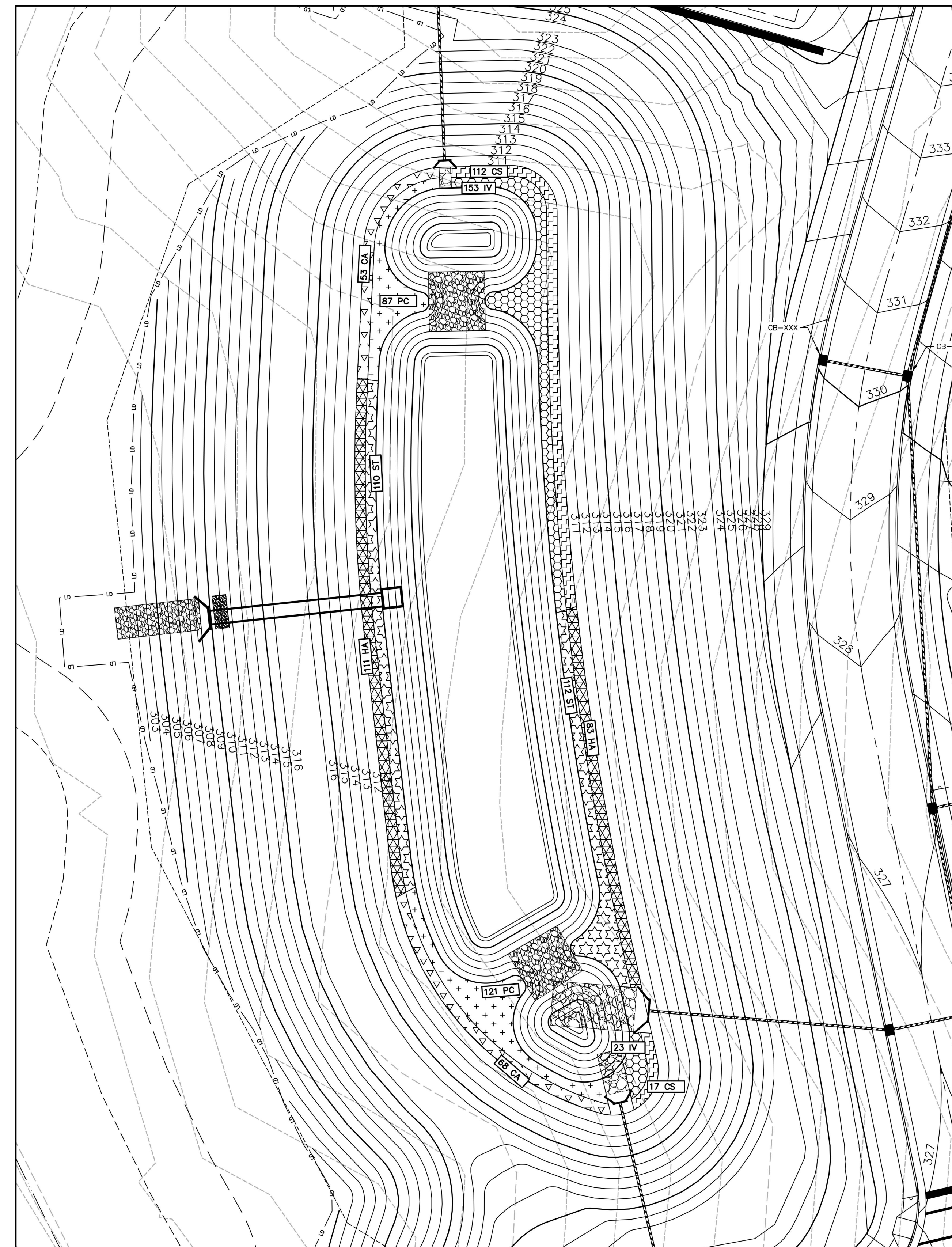
- NEW PLANTINGS SHALL BE LOCATED WHERE SHOWN ON PLAN EXCEPT WHERE CHANGES HAVE BEEN MADE IN PROPOSED CONSTRUCTION.
- NECESSARY ADJUSTMENTS SHALL BE MADE ONLY AFTER APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

#### WATER

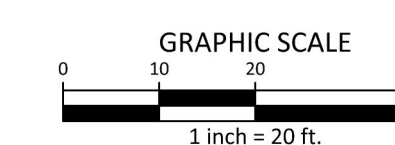
WATER SHALL BE POTABLE AND SHALL NOT CONTAIN ELEMENTS TOXIC TO PLANT LIFE.

### PLANTING SCHEDULE

- ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER MANAGEMENT FACILITY PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE CONTRACTOR'S EXPENSE.
- ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER MANAGEMENT FACILITY PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER MANAGEMENT FACILITY PLANTING PLAN.
- OPTIMAL PLANTING PERIODS RANGE APPROXIMATELY FROM APRIL 15TH THRU JUNE 30TH AND SEPTEMBER 1ST THRU OCTOBER 31ST. FOR FINAL DETERMINATION OF THE SITE'S PLANTING PERIOD, THE CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION.
- IT IS RECOMMENDED THAT THE CONTRACTOR TAKE MEASURES TO PREVENT WILDLIFE FROM DAMAGING OR CONSUMING WETLAND PLANTINGS.



STORMWATER CONTROL MEASURE 'J' PLAN VIEW  
1" = 20'



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ASHTON WOODS.

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA  
CD 20-08

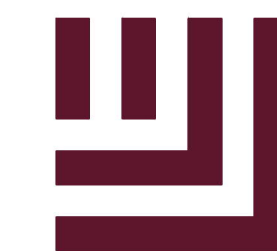
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**REVISIONS**  
NO. DATE

**PLAN INFORMATION**  
PROJECT NO. AWH-20000  
FILENAME AWH20000 - SCM J  
CHECKED BY DCW  
DRAWN BY JKD  
SCALE 1"=20'  
DATE 05. 08. 2023

**STORMWATER CONTROL**  
**MEASURE 'J' LANDSCAPE PLANS**  
**C9.03J**





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WAKE COUNTY, NORTH CAROLINA  
**CD 20-08**



**REVISIONS**

NO. DATE

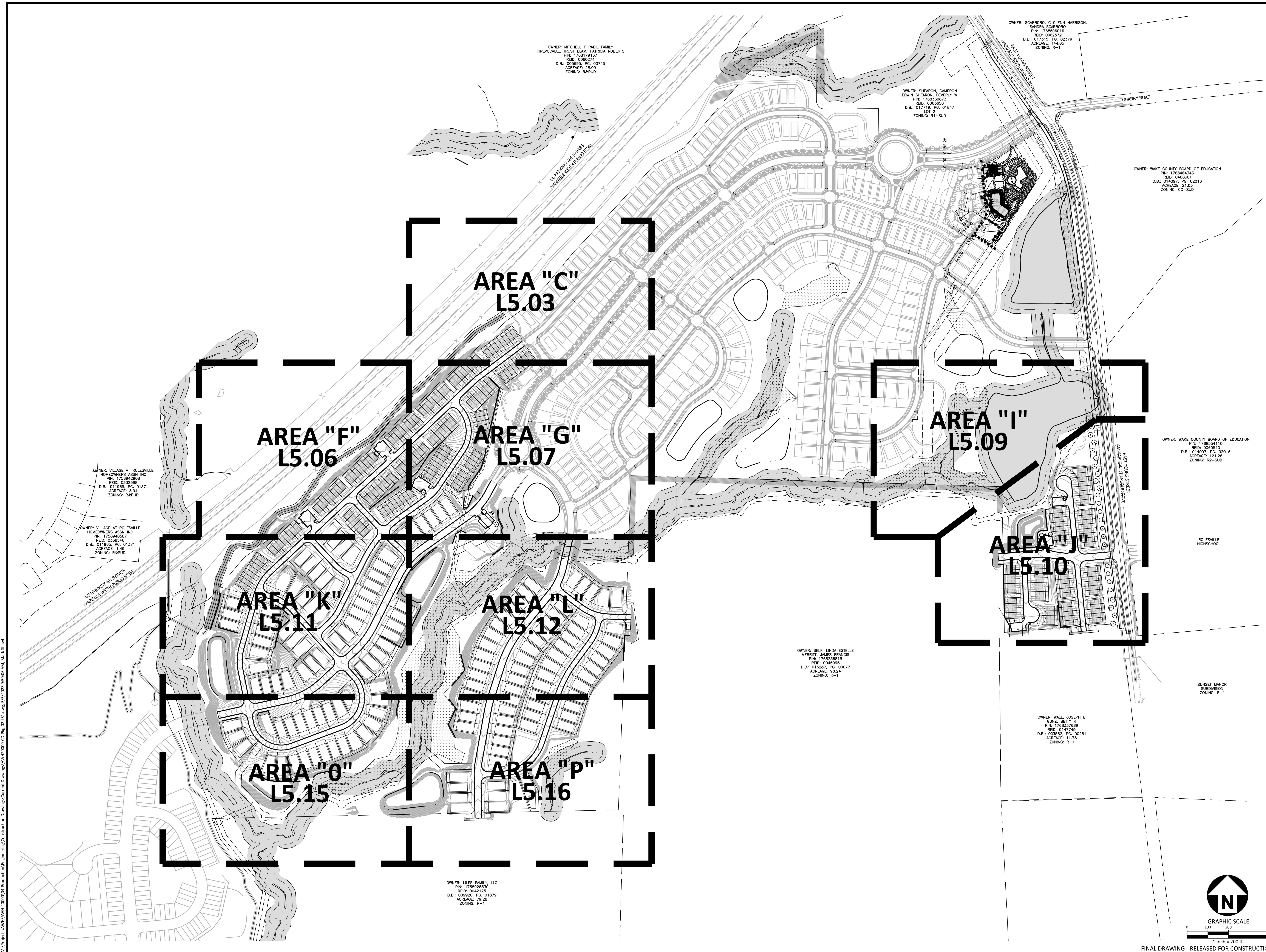
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SCALE 1"=200'  
DATE 05. 08. 2023

**SHEET**

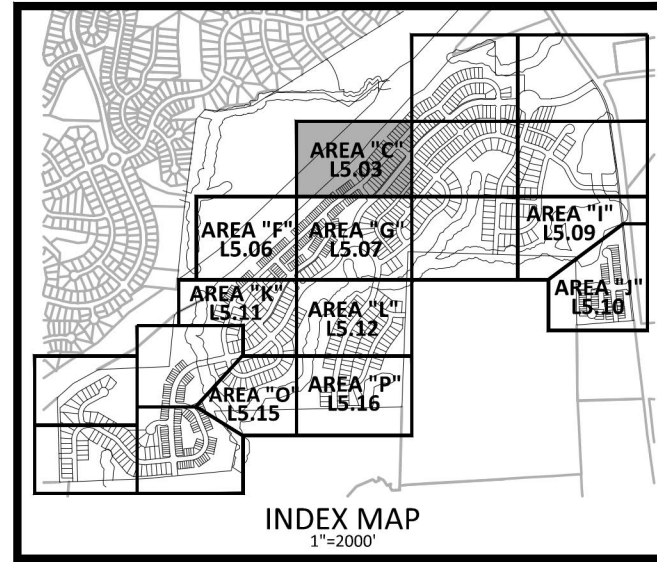
**OVERALL LANDSCAPE PLAN**

**L5.00**



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**SITE LEGEND**

	ACCESSIBLE RAMPS
TYPE Ⓐ TYPE Ⓑ TYPE Ⓒ	
	STORM DRAINAGE EASEMENT
	PHASE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	CENTERLINE
	WETLANDS
	RIPARIAN BUFFER
	BUFFER WITH EXISTING VEGETATION NO NEW PLANTING REQUIRED



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**ASHTON WOODS.**

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 EAST YOUNG STREET  
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
 WAKE COUNTY, NORTH CAROLINA  
 CD 20-08



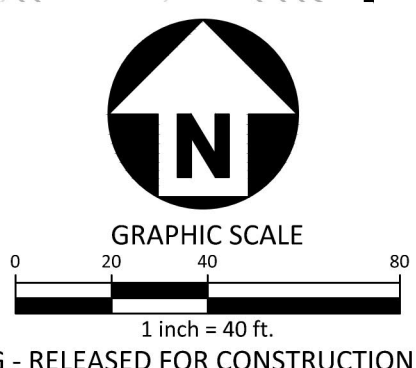
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NO.	DATE

**PLAN INFORMATION**

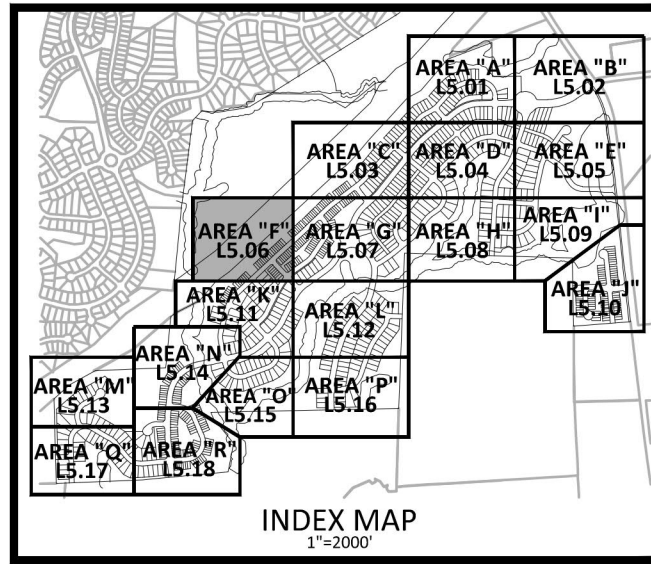
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CHECKED BY	SRD
DRAWN BY	JGY
SCALE	1"=40'
DATE	05.08.2023

**LANDSCAPE PLAN**  
**AREA "C"**  
**L5.03**



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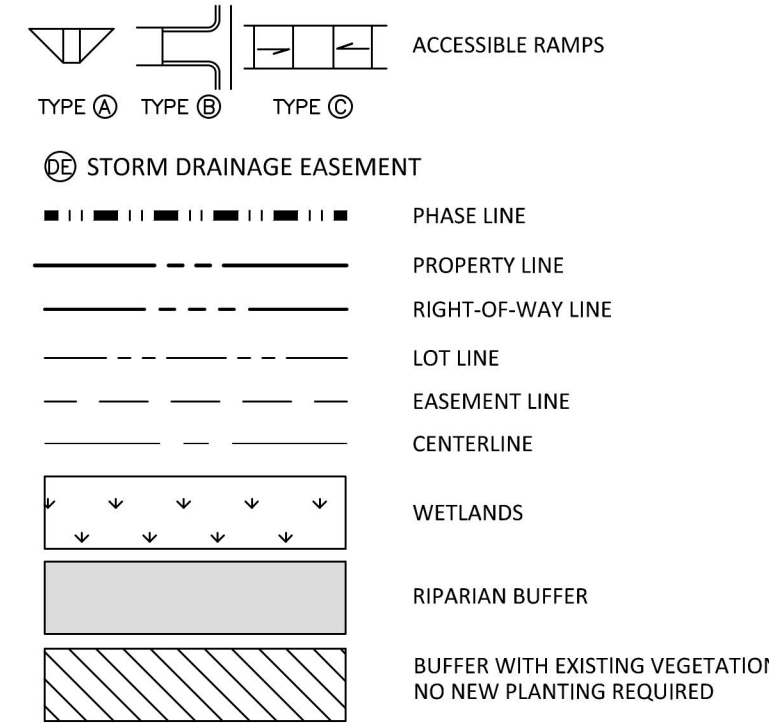


TOWNHOME NOTE:  
TOWNHOME BUILDINGS ARE CONCEPTUAL AND  
WILL BE APPROVED SEPARATE FROM THESE PLANS.

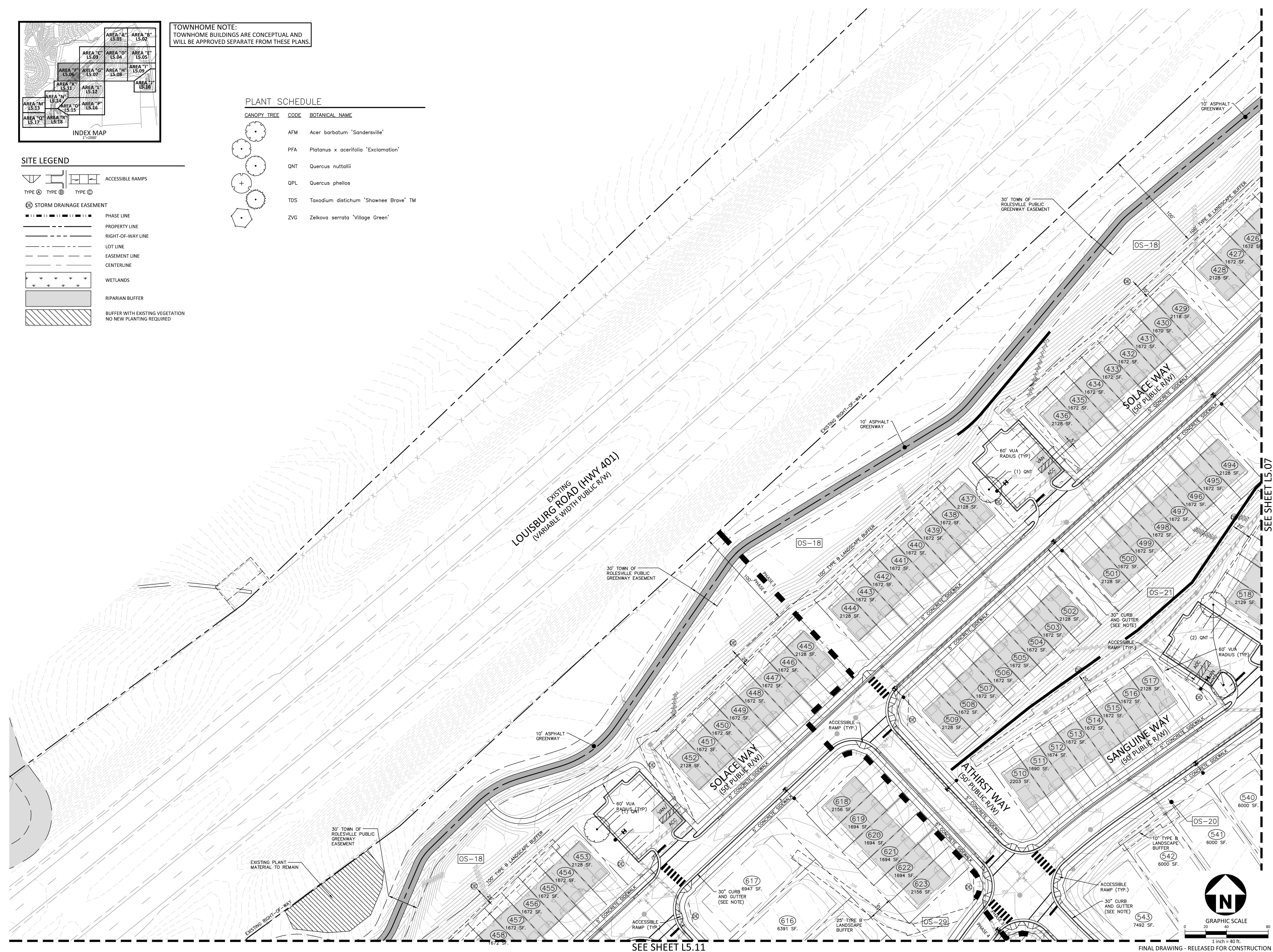
PLANT SCHEDULE

CANOPY TREE	CODE	BOTANICAL NAME
	AFM	Acer barbatum 'Sandersville'
	PFA	Platanus x acerifolia 'Exclamation'
	QNT	Quercus nuttallii
	QPL	Quercus phellos
	TDS	Toxodium distichum 'Shawnee Brave' TM
	ZVG	Zelkova serrata 'Village Green'

SITE LEGEND



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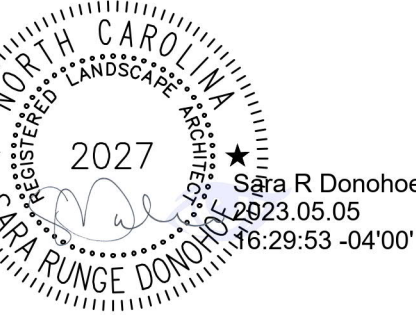


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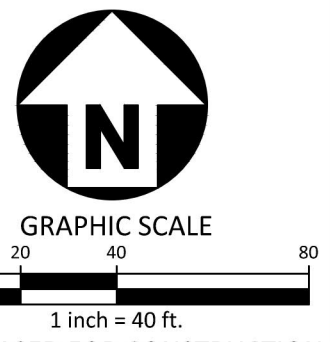
**THE POINT**  
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EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA  
CD 20-08



**REVISIONS**  
NO. DATE

**PLAN INFORMATION**  
PROJECT NO. AWH-20000  
FILENAME AWH20000-CD-PKG-02-L51  
CHECKED BY SRD  
DRAWN BY JGY  
SCALE 1"=40'  
DATE 05.08.2023

**SHEET**  
**LANDSCAPE PLAN**  
**AREA "F"**  
**L5.06**



FINAL DRAWING - RELEASED FOR CONSTRUCTION



SEE SHEET L5.03

SEE SHEET L5.12



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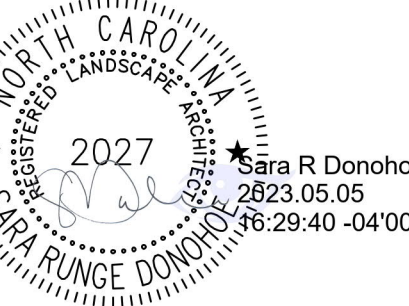
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ASHTON WOODS.

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**EAST YOUNG STREET**  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA

CD 20-08



**REVISIONS**

NO. DATE

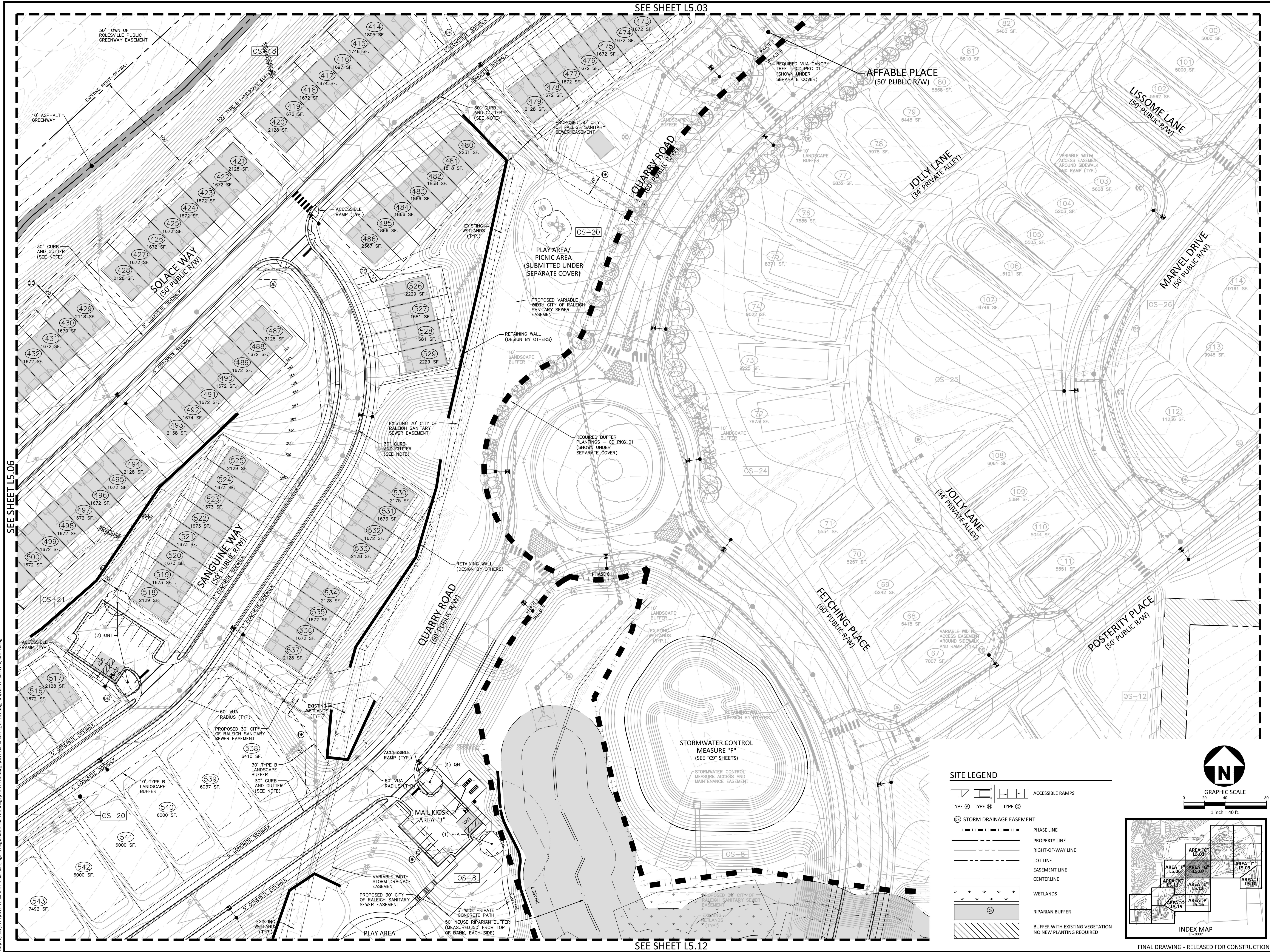
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SCALE 1"=40'  
DATE 05.08.2023

**SHEET**

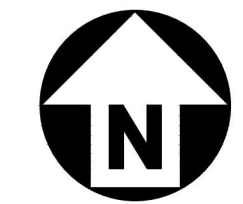
LANDSCAPE PLAN  
AREA "G"

**L5.07**

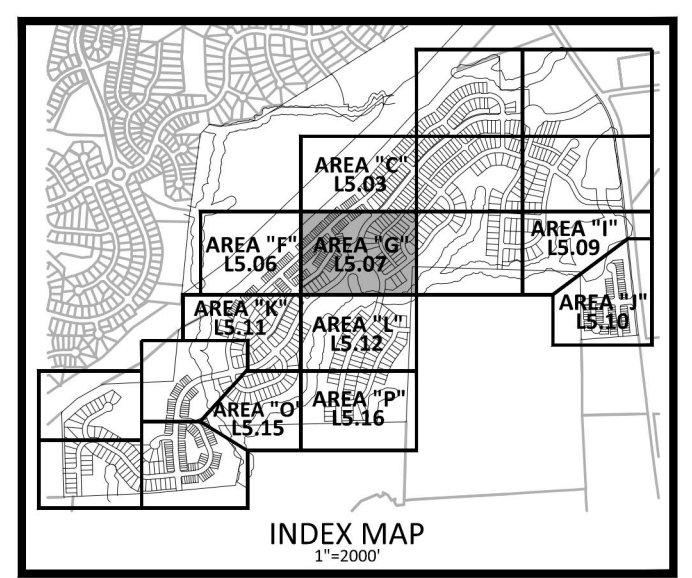


**SITE LEGEND**

	ACCESSIBLE RAMPS
TYPE @ TYPE @ TYPE @	
	STORM DRAINAGE EASEMENT
	PHASE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	CENTERLINE
	WETLANDS
	RIPIARIAN BUFFER
	BUFFER WITH EXISTING VEGETATION NO NEW PLANTING REQUIRED



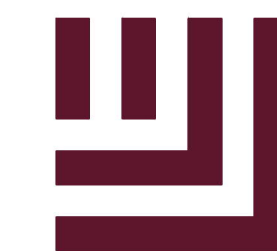
GRAPHIC SCALE  
1 inch = 40 ft.



FINAL DRAWING - RELEASED FOR CONSTRUCTION

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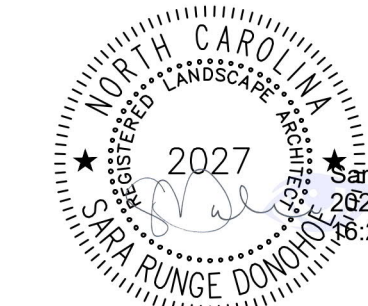
ASHTON RALEIGH RESIDENTIAL, LLC.  
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ASHTON WOODS.

THE POINT  
PHASES 3, 4, 5, 7 AND 10  
CONSTRUCTION DRAWINGS - PACKAGE 2  
EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA

CD 20-08



REVISIONS

NO. DATE

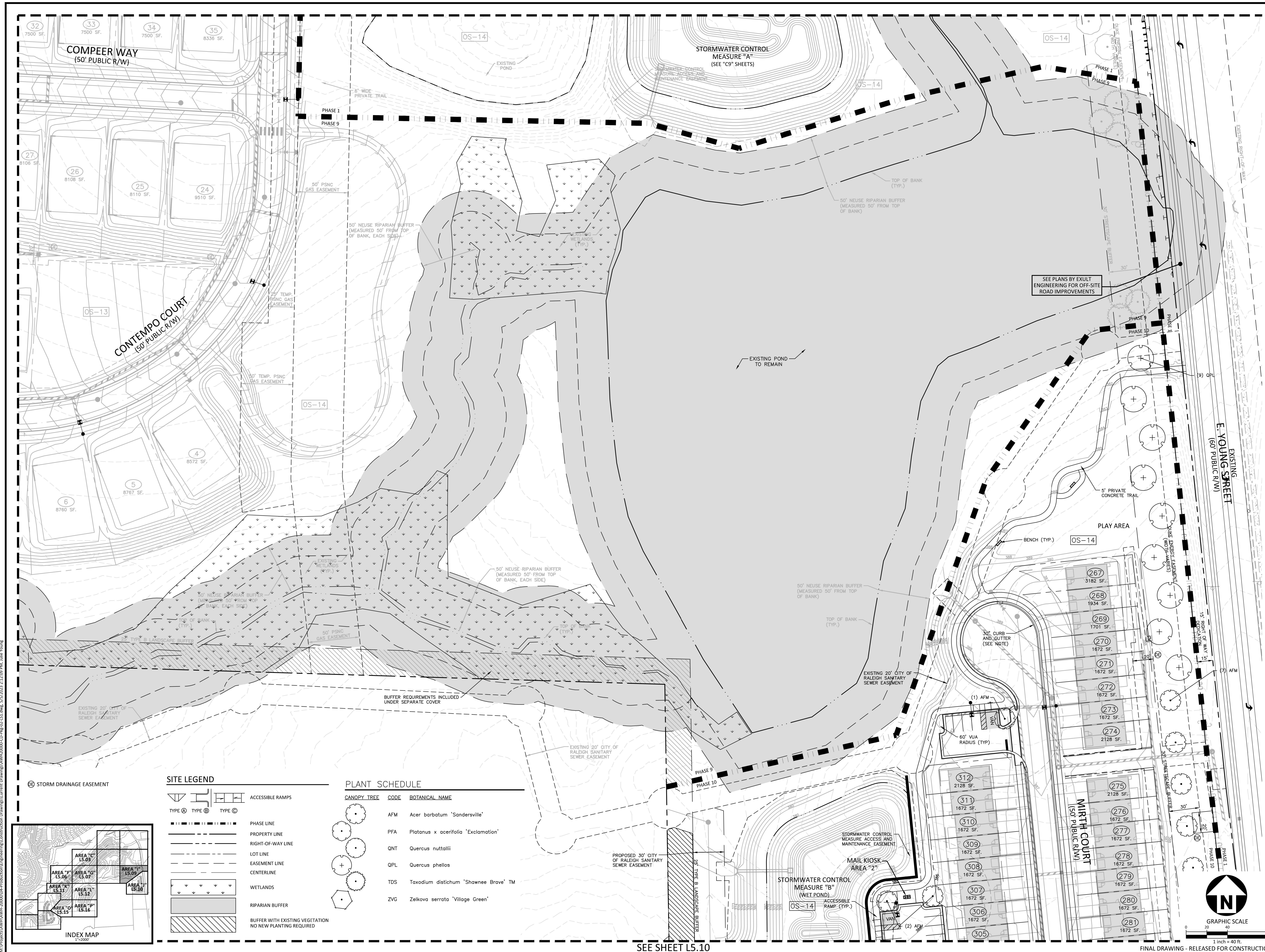
PLAN INFORMATION

PROJECT NO. AWH-20000  
FILENAME AWH20000-CD-PKG-02-L51  
CHECKED BY SRD  
DRAWN BY JGY  
SCALE 1"=40'  
DATE 05.08.2023

SHEET

LANDSCAPE PLAN  
AREA "I"

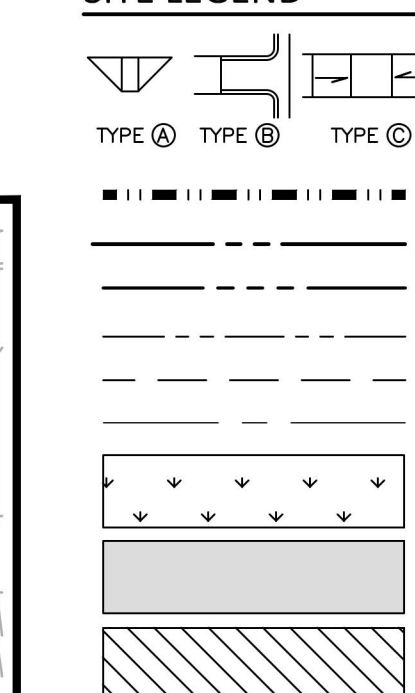
L5.09



SEE SHEET L5.10

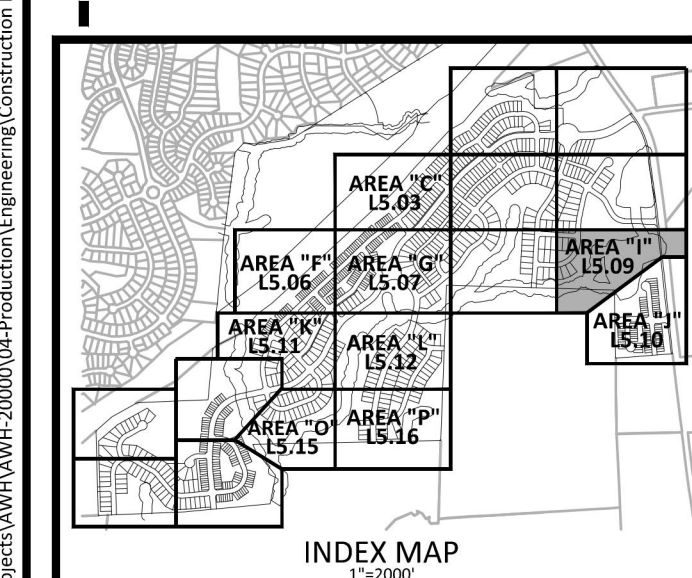
FINAL DRAWING - RELEASED FOR CONSTRUCTION

SITE LEGEND



PLANT SCHEDULE

CANOPY TREE	CODE	BOTANICAL NAME
	AFM	Acer barbatum 'Sandersville'
	PFA	Platanus x acerfolia 'Exclamation'
	QNT	Quercus nuttallii
	QPL	Quercus phellos
	TDS	Taxodium distichum 'Shownee Brave'™
	ZVG	Zelkova serrata 'Village Green'

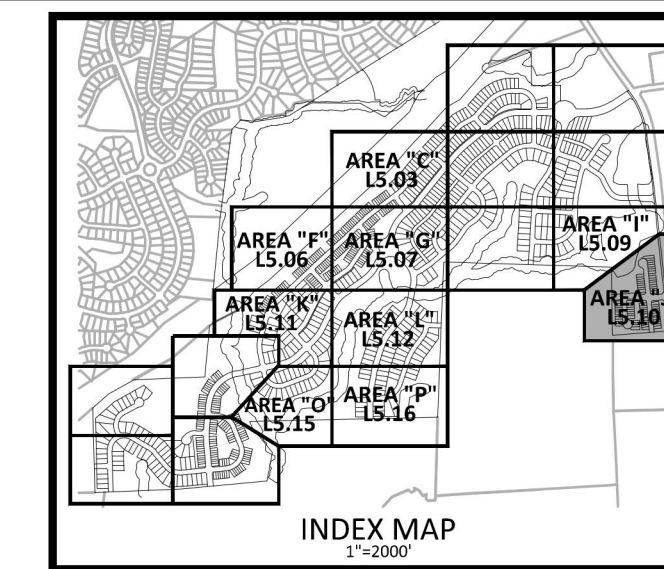


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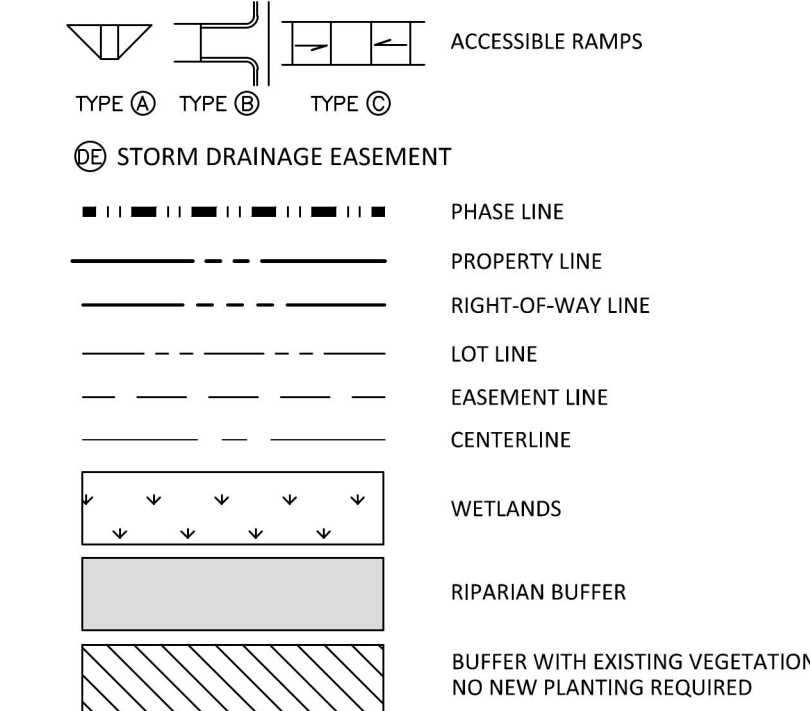
SEE SHEET L5.09

SEE SHEET L5.09



OWNER: WAKE COUNTY BOARD OF EDUCATION  
 P.N.: 1788554110  
 R.E.D.: 0060540  
 D.B.: 014097, PG. 02016  
 A.C.R.A.G.E.: 121.26  
 ZONING: R2-SUB

**SITE LEGEND**



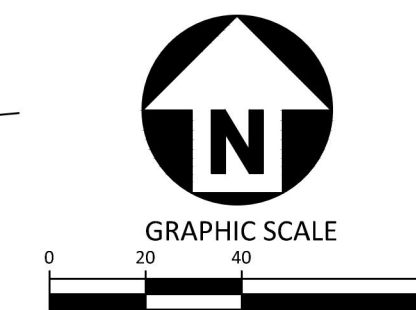
**PLANT SCHEDULE**

CANOPY TREE	CODE	BOTANICAL NAME
	AFM	Acer barbatum 'Sandersville'
	PFA	Platanus x acerifolia 'Exclamation'
	QNT	Quercus nuttallii
	QPL	Quercus phellos
	TDS	Taxodium distichum 'Shawnee Brave'™
	ZVG	Zelkova serrata 'Village Green'

OWNER: SELF, LINDA ESTELLE  
 MERRITT, JAMES FRANCIS  
 P.N.: 1768236815  
 R.E.D.: 0046695  
 D.B.: 016287, PG. 00077  
 A.C.R.A.G.E.: 98.24  
 ZONING: R-1

OWNER: WALL, JOSEPH E  
 GUNZ, BETTY R  
 P.N.: 1768337689  
 R.E.D.: 0147749  
 D.B.: 003582, PG. 00281  
 A.C.R.A.G.E.: 11.78  
 ZONING: R-1

SUNSET MANOR  
 SUBDIVISION  
 ZONING: R-1



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 CONTACT: BOB MISHLER

**ASHTON WOODS**

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
**EAST YOUNG STREET**  
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
 WAKE COUNTY, NORTH CAROLINA

CD 20-08



**REVISIONS**

NO. DATE

**PLAN INFORMATION**

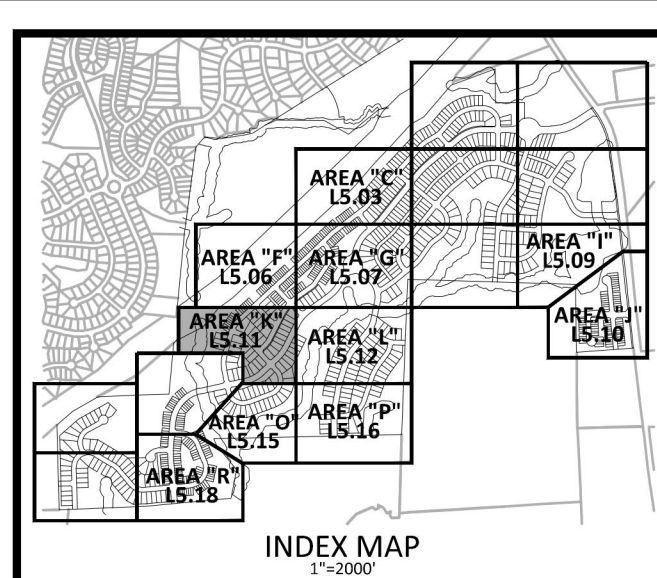
PROJECT NO. AWH-20000  
 FILENAME AWH20000-CD-PKG-02-L51  
 CHECKED BY SRD  
 DRAWN BY JGY  
 SCALE 1"=40'  
 DATE 05.08.2023

**SHEET**

**LANDSCAPE PLAN**  
**AREA "J"**  
**L5.10**

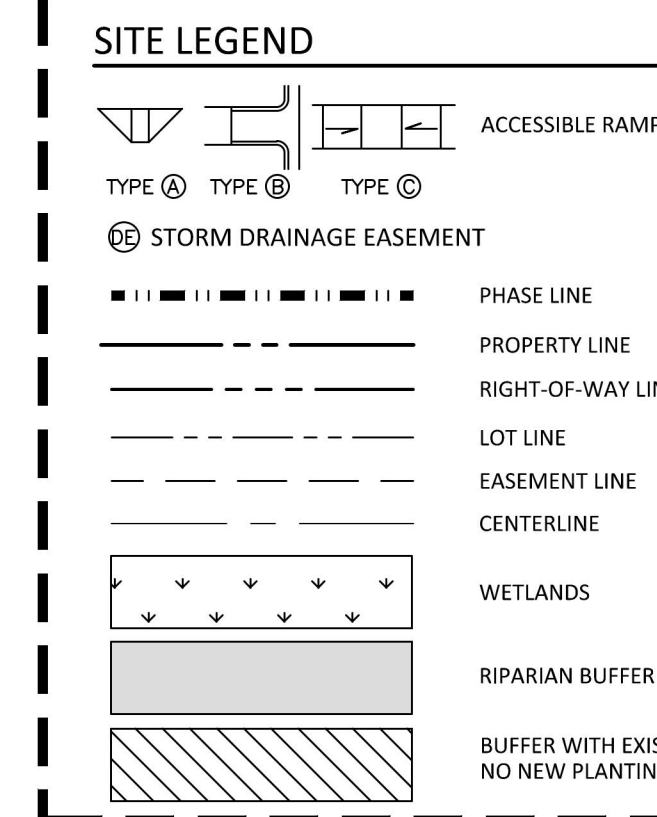
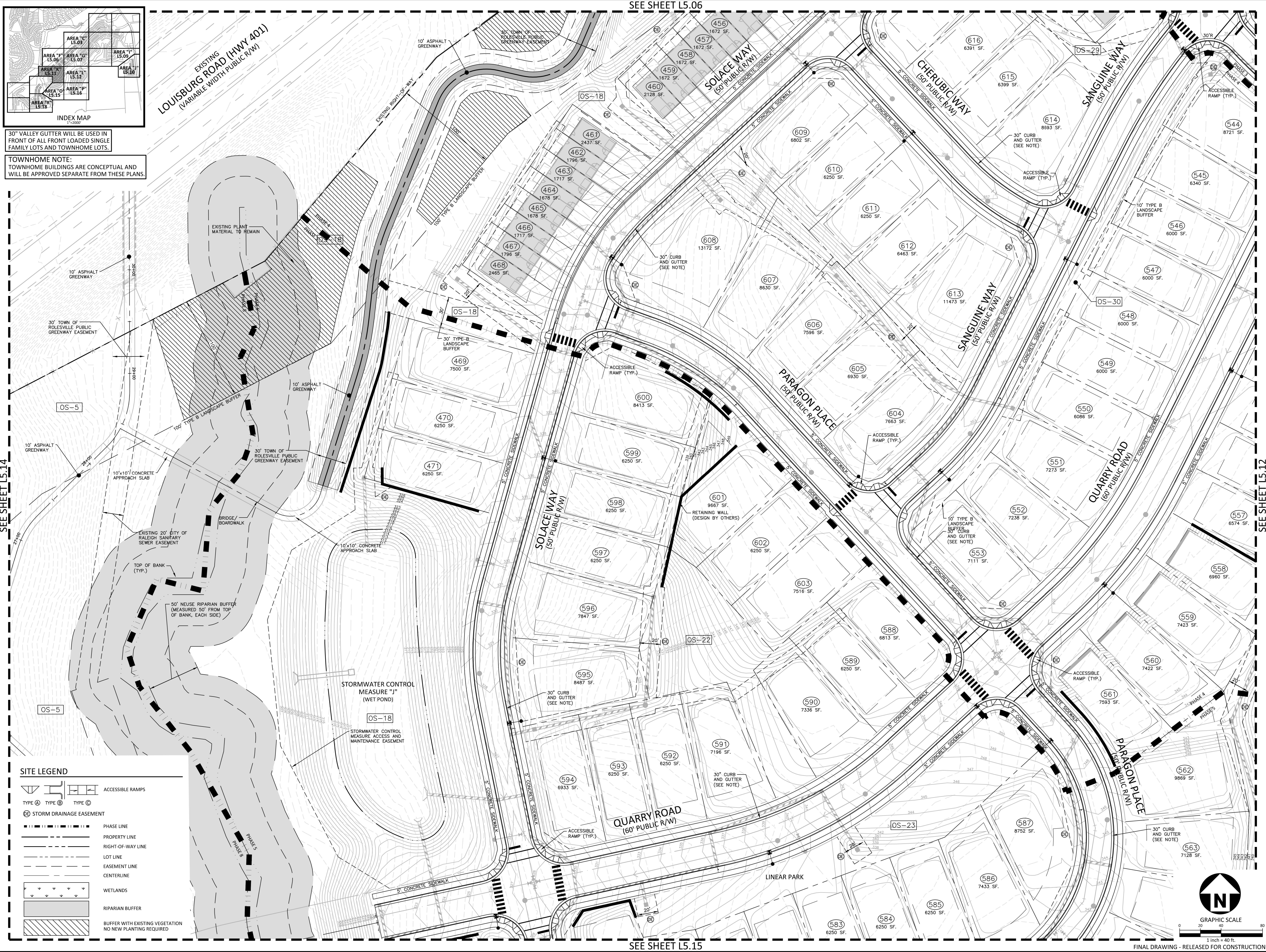
FINAL DRAWING - RELEASED FOR CONSTRUCTION





30" VALLEY GUTTER WILL BE USED IN FRONT OF ALL FRONT LOADED SINGLE FAMILY LOTS AND TOWNHOME LOTS.

TOWNHOME NOTE: TOWNHOME BUILDINGS ARE CONCEPTUAL AND WILL BE APPROVED SEPARATE FROM THESE PLANS.



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SEE SHEET L5.14

SEE SHEET L5.15

SEE SHEET L5.06

SEE SHEET L5.15

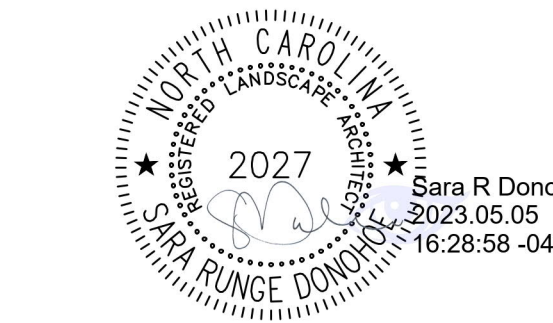
SEE SHEET L5.12

**McADAMS**  
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 Durham, NC 27713  
 phone 919. 361. 5000  
 fax 919. 361. 2269  
 license number: C-0293, C-187  
 www.mcadamsco.com

**CLIENT**  
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 900 RIDGEFIELD DRIVE, SUITE 335  
 RALEIGH, NORTH CAROLINA 27609  
 PHONE: 919. 422. 7663  
 CONTACT: BOB MISHLER

**ASHTON WOODS.**

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
**EAST YOUNG STREET**  
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
 WAKE COUNTY, NORTH CAROLINA  
 CD 20-08



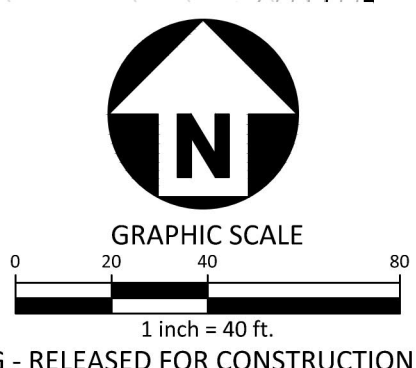
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NO.	DATE

**PLAN INFORMATION**

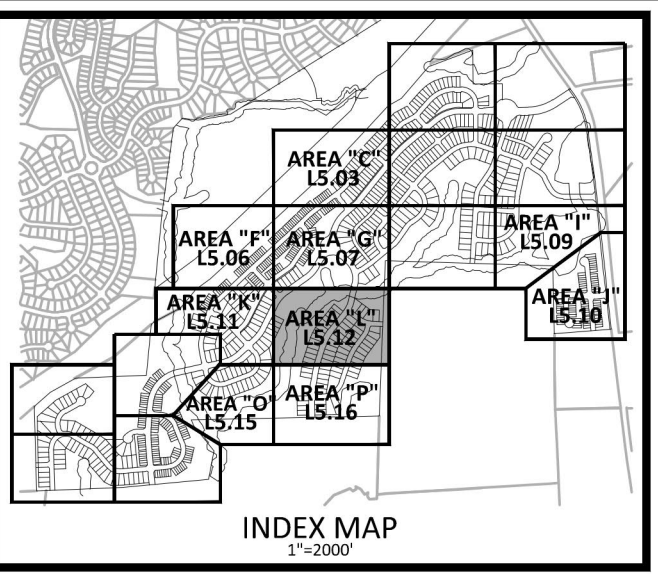
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FILENAME	AWH20000-CD-PKG-02-L5.11
CHECKED BY	SRD
DRAWN BY	JGY
SCALE	1"=40'
DATE	05.08.2023

**LANDSCAPE PLAN**  
**AREA "K"**  
**L5.11**



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**ASHTON WOODS.**

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**EAST YOUNG STREET**  
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
 WAKE COUNTY, NORTH CAROLINA

CD 20-08



**REVISIONS**

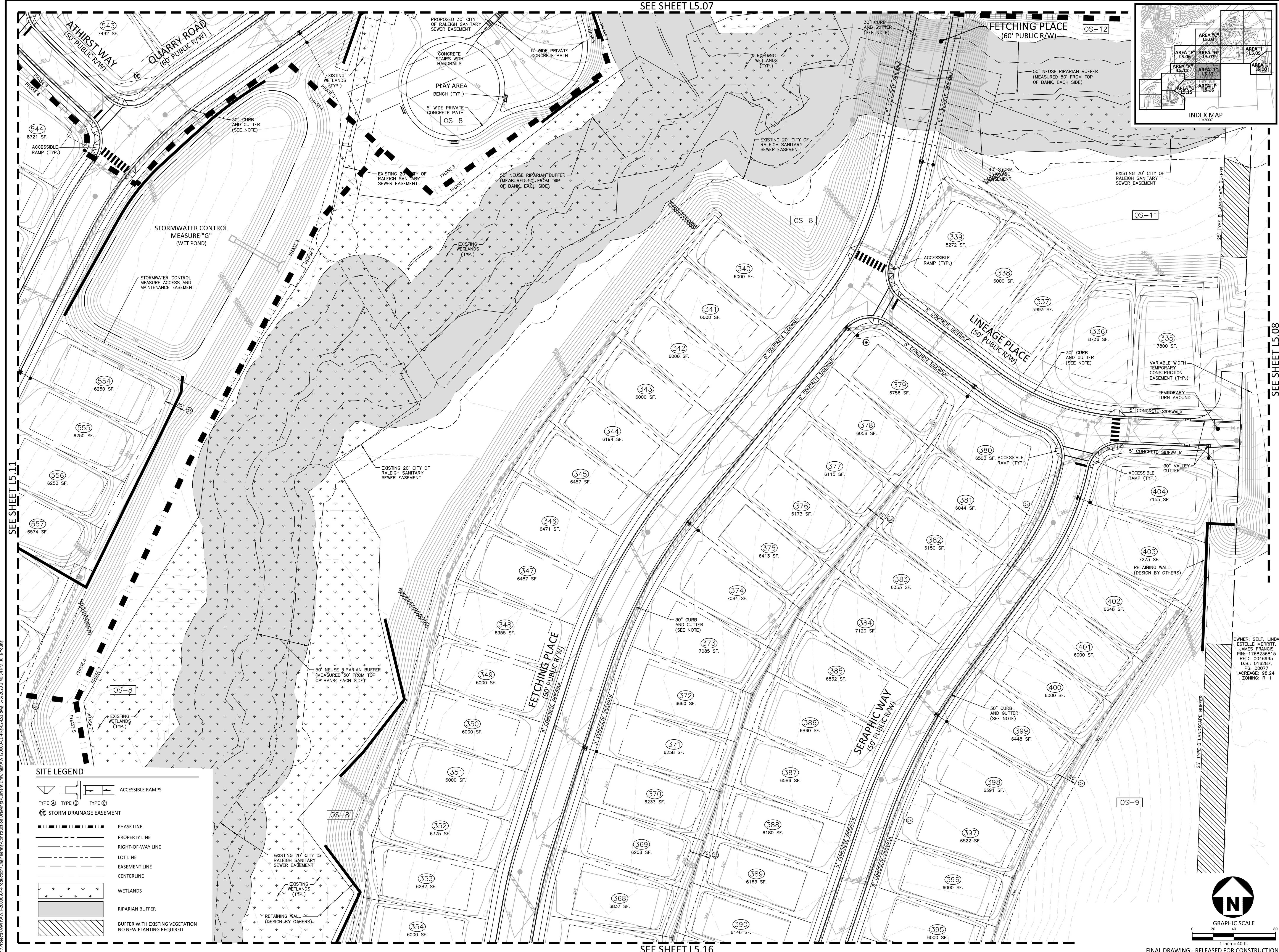
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**PLAN INFORMATION**

PROJECT NO.	AWH-20000
FILENAME	AWH20000-CD-PKG-02-L51
CHECKED BY	SRD
DRAWN BY	JGY
SCALE	1"=40'
DATE	05.08.2023

**SHEET**

**LANDSCAPE PLAN**  
**AREA "L"**  
**L5.12**



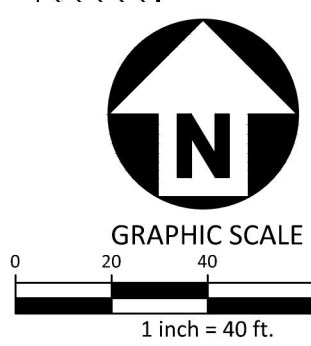
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SEE SHEET L5.08

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**SITE LEGEND**

	ACCESSIBLE RAMPS
TYPE (A) TYPE (B) TYPE (C)	
	STORM DRAINAGE EASEMENT
	PHASE LINE
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	LOT LINE
	EASEMENT LINE
	CENTERLINE
	WETLANDS
	RIPIARIAN BUFFER
	BUFFER WITH EXISTING VEGETATION
	NO NEW PLANTING REQUIRED



OWNER: SELF, LINDA ESTELLE MERRITT, JAMES FRANCIS  
 PIN: 1768238815  
 REID: 00469995  
 D.B.: 016287,  
 PG. 00077  
 ACRAGE: 98.24  
 ZONING: R-1



SEE SHEET L5.11

SEE SHEET L5.18



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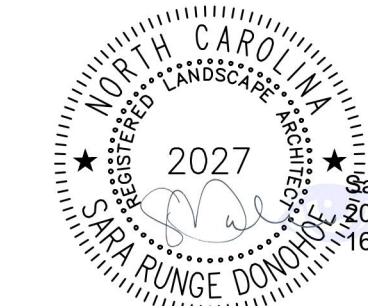
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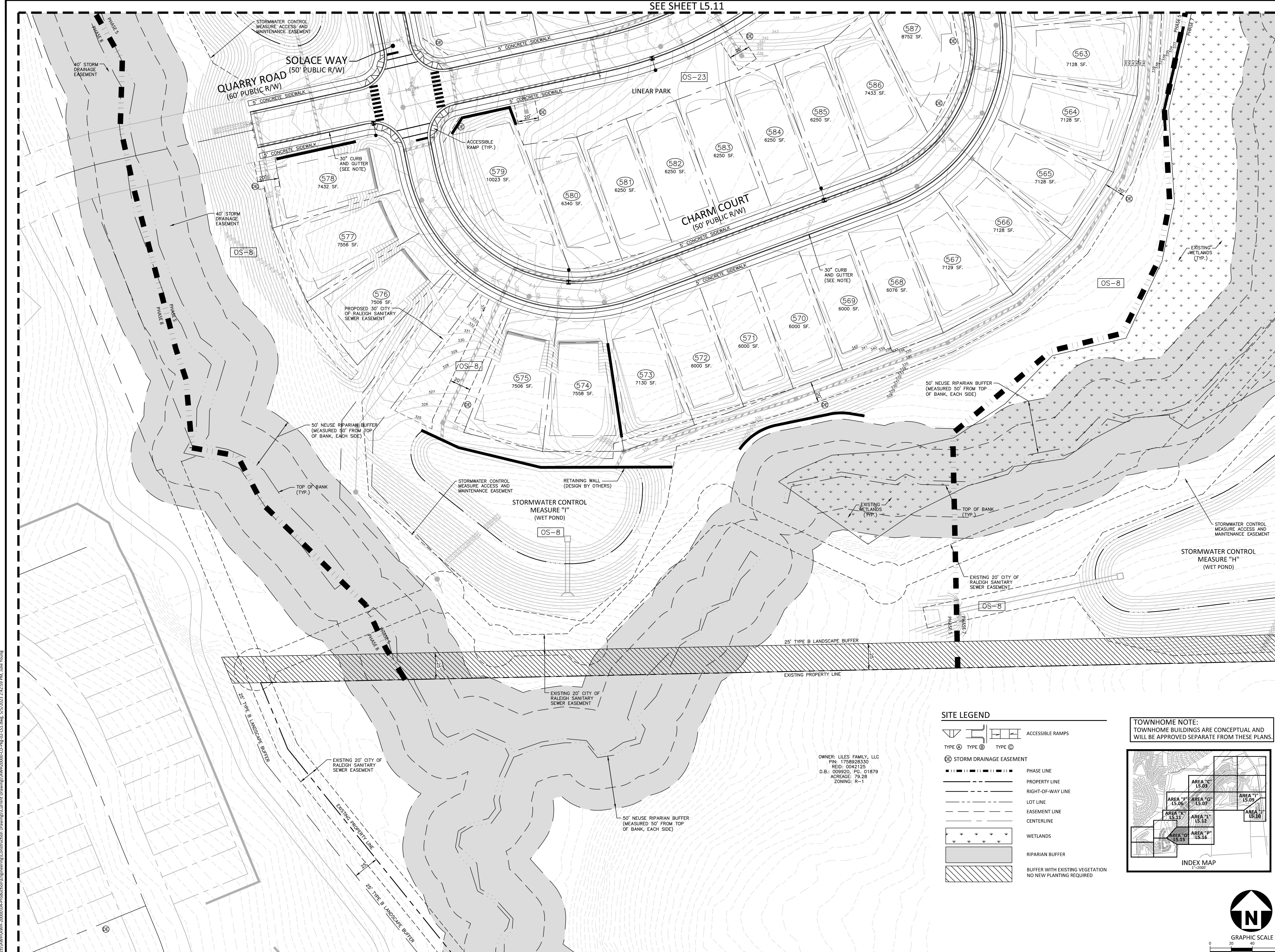


ASHTON WOODS.

THE POINT  
PHASES 3, 4, 5, 7 AND 10  
CONSTRUCTION DRAWINGS - PACKAGE 2  
EAST YOUNG STREET  
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
WAKE COUNTY, NORTH CAROLINA  
CD 20-08



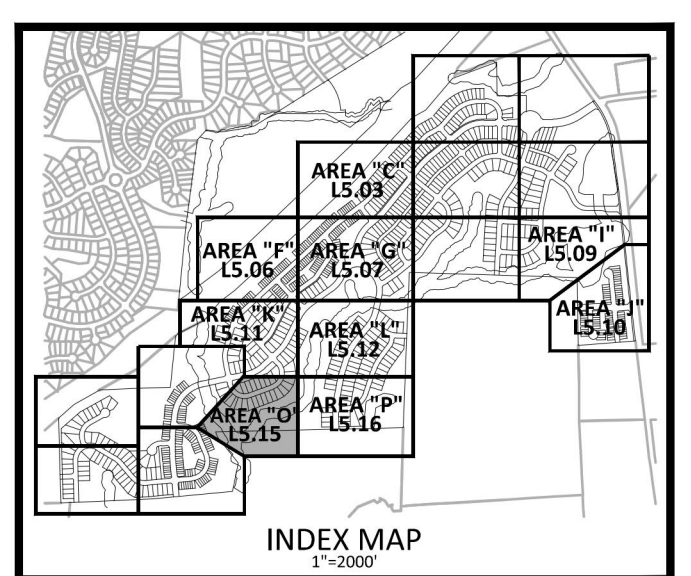
SEE SHEET L5.16



**SITE LEGEND**

- ACCESSIBLE RAMPS
- TYPE A TYPE B TYPE C
- STORM DRAINAGE EASEMENT
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- WETLANDS
- RIPIARIAN BUFFER
- BUFFER WITH EXISTING VEGETATION
- NO NEW PLANTING REQUIRED

TOWNHOME NOTE:  
TOWNHOME BUILDINGS ARE CONCEPTUAL AND  
WILL BE APPROVED SEPARATE FROM THESE PLANS.



OWNER: LILES' FAMILY, LLC  
PIN: 1765925330  
REID: 0042125  
D.B.L: 009920, P.C: 011879  
ACREAGE: 79.28  
ZONING: R-1



GRAPHIC SCALE  
0 20 40 80  
1 inch = 40 ft.

FINAL DRAWING - RELEASED FOR CONSTRUCTION

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REVISIONS

NO. DATE

PLAN INFORMATION

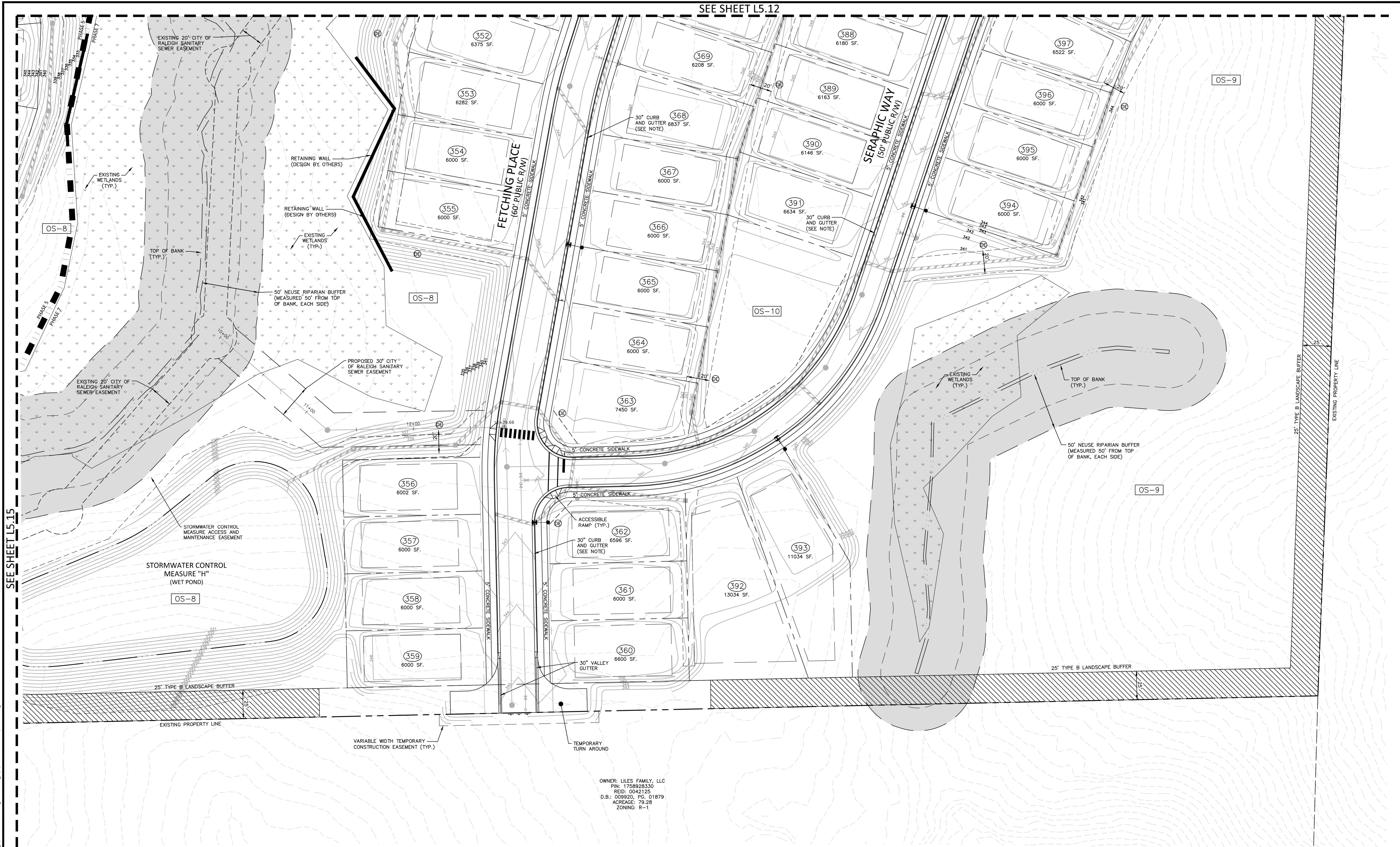
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FILENAME AWH20000-CD-PKG-02-L51  
CHECKED BY SRD  
DRAWN BY JGY  
SCALE 1"=40'  
DATE 05.08.2023

SHEET

LANDSCAPE PLAN  
AREA "O"  
**L5.15**

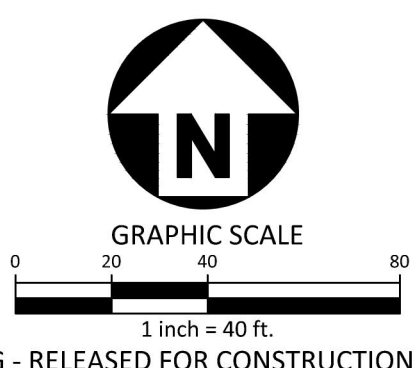
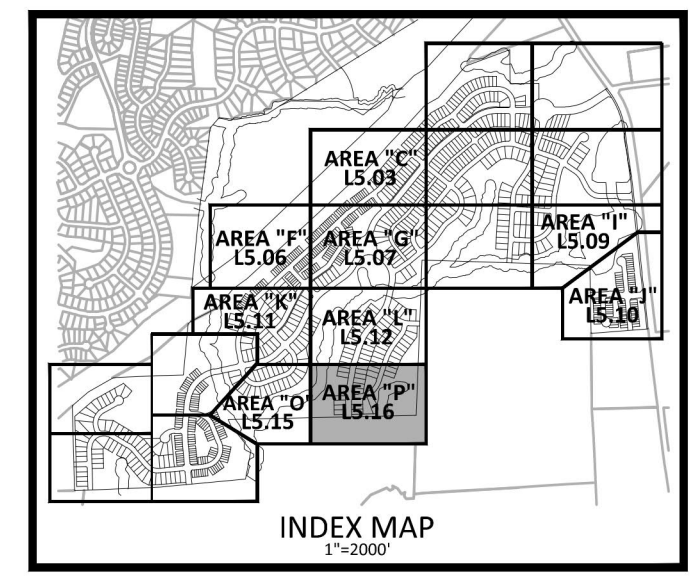
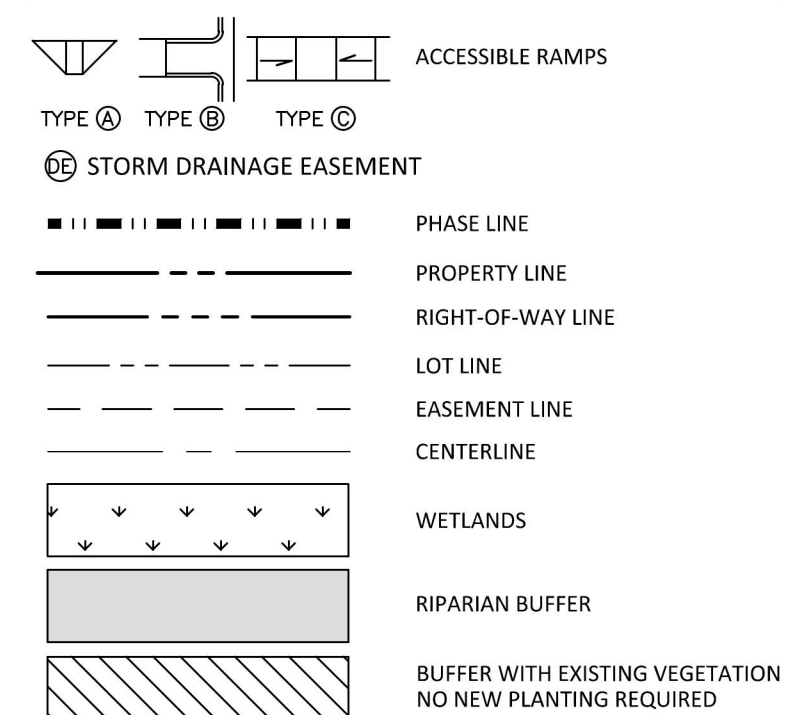


SEE SHEET L5.12



OWNER: LILES FAMILY, LLC  
 PIN: 1758928330  
 REID: 0042125  
 D.B.: 009920, P.C. 01879  
 ACREAGE: 79.28  
 ZONING: R-1

**SITE LEGEND**



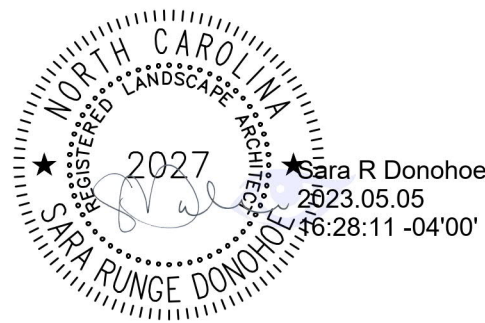
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**ASHTON WOODS**

**THE POINT**  
**PHASES 3, 4, 5, 7 AND 10**  
**CONSTRUCTION DRAWINGS - PACKAGE 2**  
**EAST YOUNG STREET**  
 TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,  
 WAKE COUNTY, NORTH CAROLINA  
 CD 20-08



**REVISIONS**  
 NO. DATE

**PLAN INFORMATION**  
 PROJECT NO. AWH-20000  
 FILENAME AWH20000-CD-PKG-02-L51  
 CHECKED BY SRD  
 DRAWN BY JGY  
 SCALE 1"=40'  
 DATE 05.08.2023

**SHEET**  
**LANDSCAPE PLAN**  
**AREA "P"**  
**L5.16**

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**LANDSCAPE CALCULATIONS**

**STREETSCAPE BUFFERS**

E YOUNG STREET - 30' STREETSCAPE BUFFER 960 LF  
 1020 TOTAL LF - 60 LF DRIVEWAY

CANOPY TREES  
 REQUIRED: 24 (1/40 LF)  
 PROVIDED: 24

**LANDSCAPE BUFFERS**

NORTHERN/WESTERN PROPERTY (NC 401 LIMITED CONTROLLED ACCESS HWY) 2190 LF  
 100' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE AND MAINTAIN A VEGETATED BUFFER ALONG LIMITED CONTROLLED ACCESS HIGHWAYS.

PROVIDED: SEE TYPICAL BUFFER PLANTING DETAILS THIS SHEET FOR PLANTINGS. EXISTING VEGETATION TO COUNT TOWARD BUFFER REQUIREMENT AS INDICATED ON PLAN (280 LF). ALL EXISTING VEGETATION TO REMAIN UNDISTURBED WHERE APPLICABLE.

SOUTHERN PROPERTY (ABUTTING LILES PROPERTY) 1975 LF  
 25' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: EXISTING VEGETATION TO COUNT TOWARD BUFFER REQUIREMENT (ENTIRE BUFFER LENGTH). ALL EXISTING VEGETATION TO REMAIN UNDISTURBED IN BUFFER AREAS.

EASTERN PROPERTY (ABUTTING SELF/MERRITT PROPERTY) 1210 LF  
 25' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: EXISTING VEGETATION TO COUNT TOWARD BUFFER REQUIREMENT (ENTIRE BUFFER LENGTH). ALL EXISTING VEGETATION TO REMAIN UNDISTURBED IN BUFFER AREAS.

WESTERN PROPERTY (PHASE 10 TOWNHOMES ABUTTING SELF/MERRITT PROPERTY) 570 LF  
 25' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: EXISTING VEGETATION TO COUNT TOWARD BUFFER REQUIREMENT (ENTIRE BUFFER LENGTH). ALL EXISTING VEGETATION TO REMAIN UNDISTURBED IN BUFFER AREAS.

SOUTHERN PROPERTY (PHASE 10 TOWNHOMES ABUTTING WAL/GUNZ PROPERTY) 550 LF  
 25' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: EXISTING VEGETATION TO COUNT TOWARD BUFFER REQUIREMENT (ENTIRE BUFFER LENGTH). ALL EXISTING VEGETATION TO REMAIN UNDISTURBED IN BUFFER AREAS.

LANDSCAPE BUFFER (BETWEEN TOWNHOME LOT 468 AND SF LOT 469) 150 LF  
 30' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: SEE TYPICAL BUFFER PLANTING DETAILS THIS SHEET FOR PLANTINGS.

LANDSCAPE BUFFER (BETWEEN TOWNHOME LOT 537 AND SF LOT 538) 150 LF  
 30' TYPE B LANDSCAPE BUFFER

REQUIRED: PROVIDE A SEMI-OPAQUE VEGETATED BUFFER FROM THE GROUND TO AT LEAST THREE FEET WITH AT LEAST 50% EVERGREEN SPECIES.

PROVIDED: SEE TYPICAL BUFFER PLANTING DETAILS THIS SHEET FOR PLANTINGS.

**VEHICLE USE AREAS**

MIRTH COURT PARKING AREA 5 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 1

STRIPS DRIVE MAIL KIOSK PARKING AREA 9 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 2

ROSY COURT PARKING AREA 7 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 2

SOLOACE WAY PARKING AREAS (2) 26 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 2

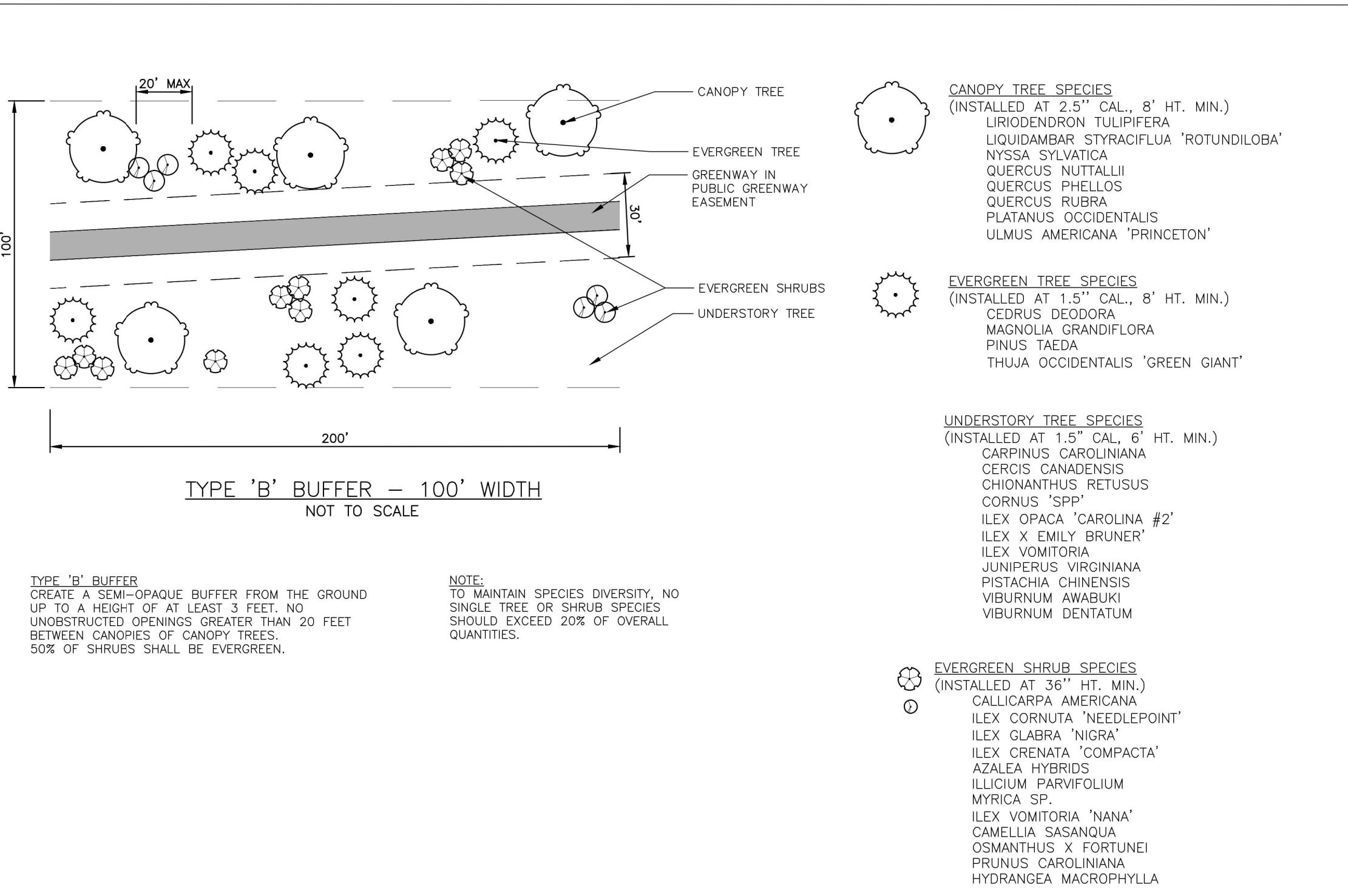
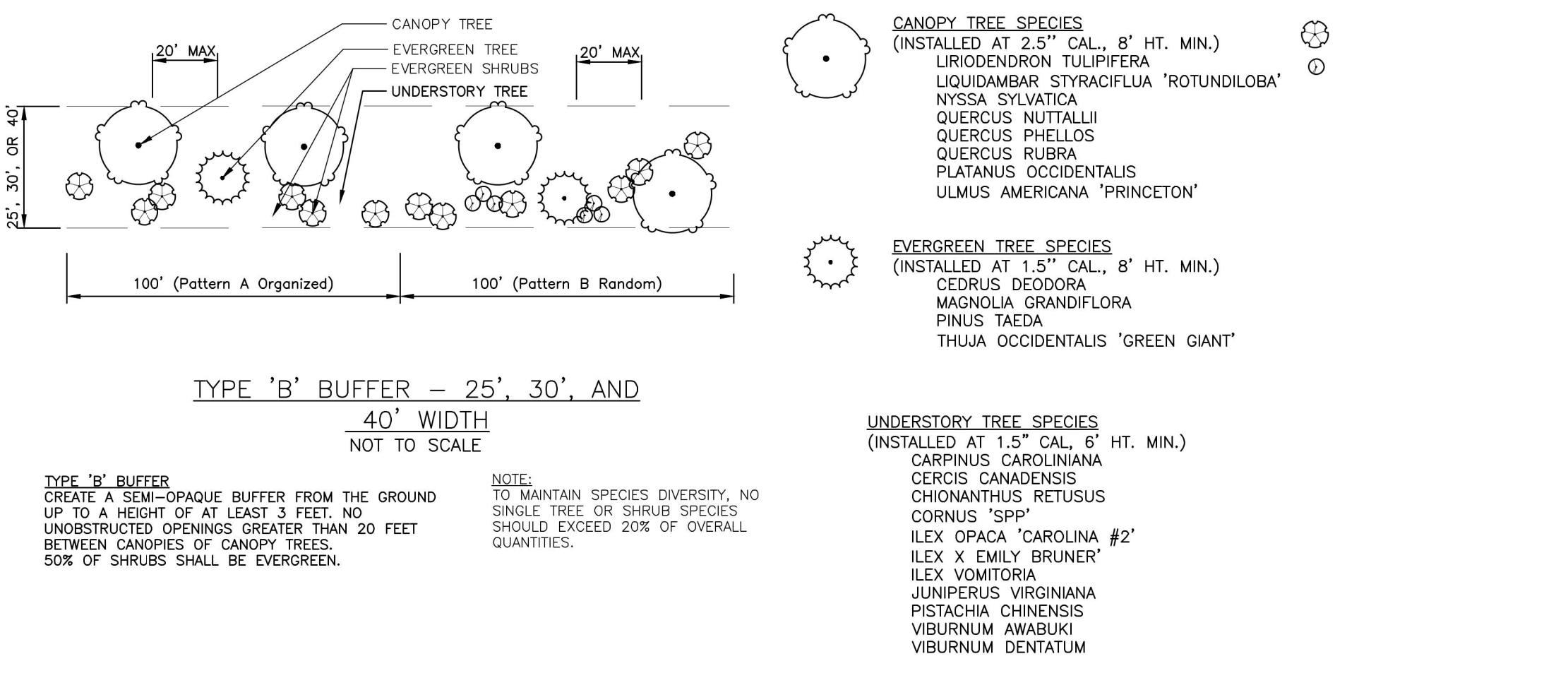
SANGLINE WAY PARKING AREA 13 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 2

QUARRY ROAD MAIL KIOSK PARKING AREA 11 SPACES

CANOPY TREES  
 REQUIRED: ALL SPACES WITHIN 60' FROM PLANTED TREE  
 PROVIDED: 2

**TYPICAL BUFFER PLANTING**



**PLANT SCHEDULE**

CANOPY TREE	CODE	QTY	COMMON NAME	BOTANICAL NAME	CAL	HEIGHT	REMARKS
	AFM	14	Harvest Moon Southern Sugar Maple	Acer barbatum 'Sandersville'	2.5"	min 8' min	
	PFA	1	London Plane Tree	Platanus x acerifolia 'Exclamation'	2.5"	min 8' min	
	QNT	7	Nuttall Oak	Quercus nuttallii	2.5"	min 8' min	
	OPL	13	Willow Oak	Quercus phellos	2.5"	min 8' min	

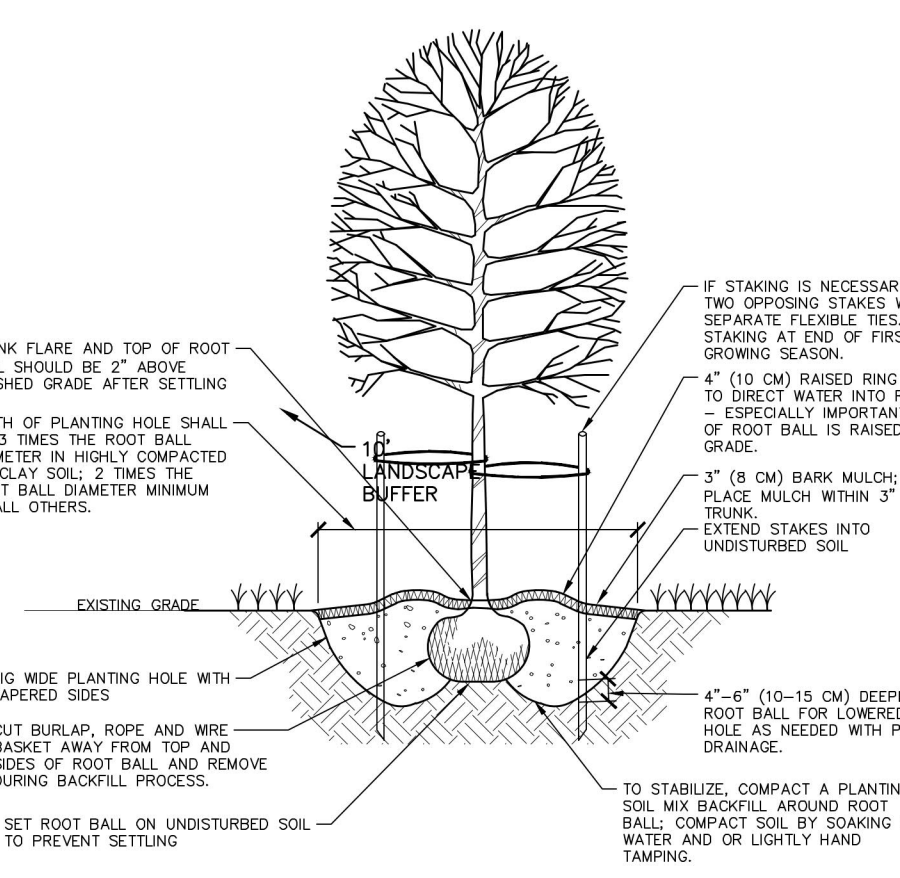


**MAINTENANCE NOTES:**

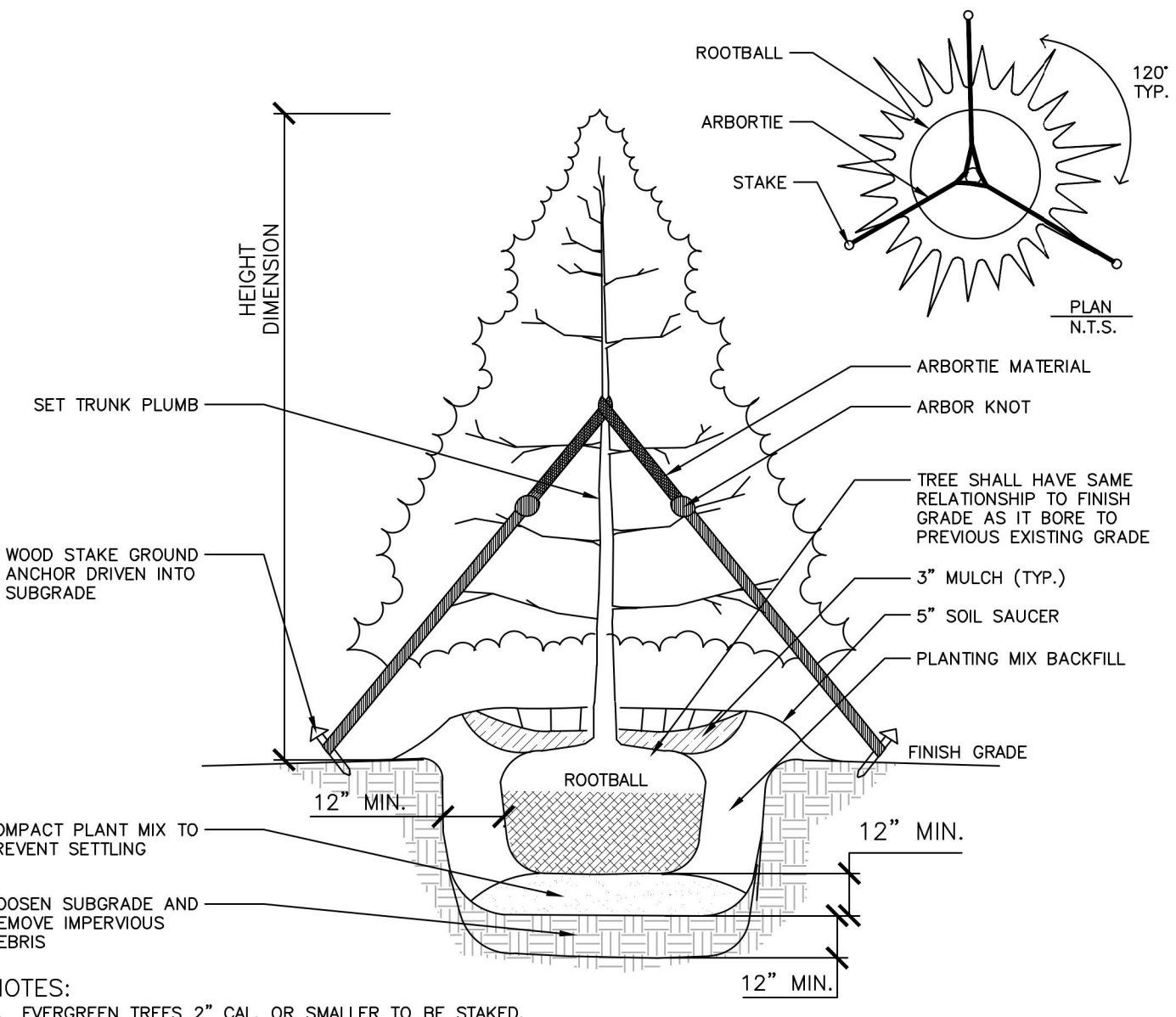
- WARRANTY: INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
  - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
- THE OWNER OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES ON THIS PLAN. FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THIS ORDINANCE AND MAY RESULT IN FINES. THE OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE VEGETATION, INCLUDING BUT NOT LIMITED TO:
  - FERTILIZATION
  - PRUNING WITHIN LIMITS
  - PEST CONTROL
  - MULCHING
  - MOWING
  - PROTECTION OF THE ROOT ZONES FROM EQUIPMENT, CONSTRUCTION AND RELATED MATERIALS, ETC.
  - METHOD OF IRRIGATION
  - OTHER CONTINUING MAINTENANCE OPERATIONS

**GENERAL LANDSCAPE NOTES:**

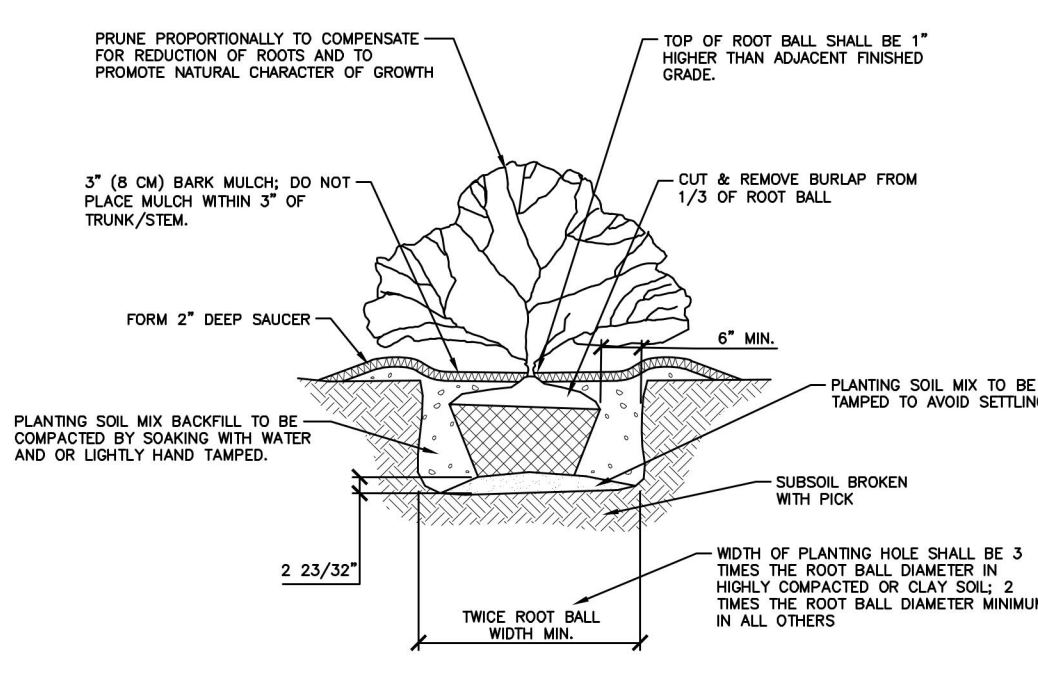
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ROLESVILLE AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
- ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- SUBSTITUTIONS OF SPECIFIC PLANTS CAN ONLY OCCUR WITH PRIOR WRITTEN PERMISSION OF BOTH OWNER AND LANDSCAPE ARCHITECT.
- CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY AMERICAN HORT - AMERICANHORT.ORG.
- ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
- ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
- ALL TREES MUST BE PLANTED AFTER OCTOBER 1 AND BEFORE MARCH 31.
- CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOIL IF NOT SPECIFICALLY SHOWN ON PLANS.
- CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- PROPOSED TREES TO BE PLANTED A MINIMUM 15 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
- PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
- ALL TREE PLANTINGS SHALL BE MULCHED WITH 3 INCHES OF SHREDDED BARK OR 4 INCHES OF PINE STRAW IN A 3 FOOT RADIUS AROUND THE TREE, OR TO THE DRIPLINE, WHICHEVER IS GREATER. THE MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE THEREAFTER. MULCH SHALL NOT COVER THE ROOT COLLAR.



- NOTES:**
- SELECT TREES THAT HAVE STRONG CENTRAL LEADERS. CROWN WITH FULL FOLIAGE ARE GROWN IN HEAVY CLAY SOIL WITH DRIP BRANCHES.
  - BEFORE PLANTING SOIL MIX TO DIRECT WATER INTO ROOT BALL. LANDSCAPE ARCHITECT SHALL BE SURE TO ESPECIALLY IMPORTANT IF TOP OF ROOT BALL IS RAISED ABOVE BUFFER THROUGH UNDISTURBED SOIL DESIGN.
  - ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED: A SOIL EXPERT CAN BE CONSULTED TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES.
  - IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL AWAY ANY ROOTS CIRCUING THE PERIMETER OF THE CONTAINER.
  - THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.



- NOTES:**
- EVERGREEN TREES 2" CAL OR SMALLER TO BE STAKED.
  - STAKING BASIS OF DESIGN PRODUCT, ARBORVITAE OR APPROVED EQUAL.
  - STAKING TO BE REMOVED AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.
  - PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.



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**CD 20-08**

**REVISIONS**

NO.	DATE

**PLAN INFORMATION**

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 SCALE AS SHOWN  
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**SHEET**

**CODE LANDSCAPE NOTES**  
**L5.20**